

October 14, 2005 Project No. 203320006

Dr. Rebecca Chou California Regional Water Quality Control Board Los Angeles Region 320 West 4th Street, Suite 200 Los Angeles, California 90013

Subject: Quarterly Groundwater Monitoring and Remedial Progress Report,

Third Quarter 2005

8411 South Atlantic Boulevard

Cudahy, California SLIC No. 1148

Dear Dr. Chou:

Ninyo & Moore is pleased to submit the third 2005 quarter groundwater monitoring and remedial progress report for activities conducted between July and September 2005 at the 8411 South Atlantic Boulevard property located in the city of Cudahy, California, Spills, Leaks, Investigation, and Cleanup (SLIC) Case No. 1148 (site, Figure 1). This is the fifth groundwater event completed at the site. The work was conducted in general accordance with the approved work plan dated October 15, 2003, and the California Regional Water Quality Control Board, Los Angeles Region (RWQCB), approval letter dated June 9, 2004.

BACKGROUND

A clarifier was previously installed, owned, maintained, and operated by General Inspection Laboratory, a former tenant prior to the date the current owner, On Atlantic, LLC, acquired the site. Prior to the removal of the clarifier, a number of environmental soil and soil gas investigations were completed at the site and the results indicated the presence of volatile organic compounds (VOCs), namely trichloroethene (TCE), in soil and groundwater. In November 2002, Ninyo & Moore supervised the removal of the clarifier under order from and the direction of the Los Angeles County Department of Public Works (LADPW).

Ninyo & Moore prepared and submitted a work plan dated October 15, 2003, to the LADPW, who referred the case to the RWQCB by letter dated April 1, 2003. The RWQCB, as noted above, approved the work plan by letter dated June 9, 2004. On August 20, 2004, Ninyo & Moore installed a multi-purpose groundwater/vapor well (designated MW-1) in the approximate location of the former clarifier (Figure 1). This well has been sampled on a quarterly basis since installation. A vapor extraction system (VES) was installed on MW-1 and an extended pilot study was completed. At the direction of the RWQCB, two additional groundwater wells were installed last quarter and have also been sampled. These wells were also used to assess groundwater gradient and flow direction. This report presents the results of the extended pilot study, which was completed on August 22, 2005, and the continued groundwater monitoring results.

OBJECTIVES

The objectives of the work completed during the third quarter were to assess groundwater quality beneath the site and to assess the effectiveness of the VES to mitigate the impacted soils on site.

VAPOR EXTRACTION SYSTEM PILOT STUDY

Ninyo & Moore retained EnviroSupply and Services, Inc. (EnviroSupply), to install a vapor extraction system (VES) utilizing a blower and carbon filtration vapor control system as a pilot/interim measure. The VES was connected to multi-purpose groundwater/vapor well MW-1 and was started on April 20, 2005.

As discussed in the last quarterly report, vapor points VP-1 and VP-2 were used to assess the radius of influence of the VES. Two vapor monitoring points were placed within each vapor point to measure vapor pressure in specific lithologies encountered. Based on the previous investigations, the VES apparently influenced the shallower sand layers (at depths from surface to approximately 17 feet below the ground surface [bgs] in VP-1, and from approximately 8 to 18 feet bgs in VP-2) and the deeper silty fine sand lithology (at depths of approximately 17 to 30 feet bgs in VP-1, and from approximately 18 to 30 feet bgs in VP-2). These points were placed at distances of greater than 80 feet from the VES.

The VES had operated from April 20, 2005, to August 22, 2005, with some minor equipment malfunctions and carbon change-outs during operations. These interruptions allowed the system to be periodically pulsed. Field measurements have been collected as well as discrete vapor samples of the effluent gasses (Tables 1 and 2). The vapor samples collected were analyzed by a State-certified environmental laboratory. As noted in Table 2 and shown in Graph 1, concentrations of TCE appear to have reached asymptotic conditions. Laboratory reports are provided in Attachment A. Based on this information, the system was turned off and removed from the site. Based on the results of the VES pilot study, it appears that the VES was a feasible remediation technique and had mitigated the impacted soil at the site.

GROUNDWATER SAMPLING AND LABORATORY RESULTS

Groundwater monitoring and sampling was conducted by Ninyo & Moore on September 8, 2005, and consisted of measuring the static groundwater elevations and collecting groundwater samples from multi-purpose well MW-1 and groundwater monitoring wells MW-2 and MW-3.

As indicated on Table 3, groundwater was measured at a depth of approximately 52 feet bgs in MW-1, MW-2, and MW-3. Based on the groundwater elevations recorded, the interpreted groundwater flow continues to be in a northeast direction (Figure 1). The groundwater gradient was calculated to be 0.009 foot per foot (ft/ft).

In general, water samples were collected following the removal of a minimum of three casing volumes of water and/or the stabilization of pH, temperature, and electrical conductivity readings to within 5 percent of each other for three subsequent measurements. Groundwater Monitoring Field Data Sheets are provided in Attachment B.

Groundwater samples were analyzed by Advanced Technology Laboratories (ATL) of Signal Hill, California, a state-certified environmental laboratory, for VOCs in general accordance with EPA Method No. 8260B. The laboratory results of the groundwater samples collected in the three wells showed concentrations of TCE at relatively the same magnitude concentration (2,500, 2,800, and 3,300 micrograms per liter [ug/l]). The breakdown product cis-1,2-dichloroethene

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(cis-1,2-DCE, up to 240 ug/l) was also reported in the three wells. Trans-1,2-dichloroethene (trans-1,2-DCE, another breakdown product of TCE) was reported in groundwater collected from MW-3 at concentrations slightly exceeding the CDHS MCL value. Trans-1,2-DCE did not exceed the drinking water standards in the remaining two wells. Laboratory reports are presented in Attachment C.

CONCLUSIONS

During the third quarter of 2005, Ninyo & Moore completed the extended VES pilot study. The pilot study has shown that the radius of influence affected an area greater than 80 feet from the vapor extraction well and influenced shallow and deep lithological materials. The laboratory results of vapor samples have indicated a decrease concentration of TCE from 36 parts per million by volume (ppmv) when the VES was first implemented on April 20, 2005, to 4.8 ppmv on August 22, 2005. Within a month after starting the system, concentrations of effluent samples had reached asymptotic conditions. The system ran for 13 weeks after the asymptotic conditions were reached. Based on this information, it appears that the VES has been successful in remediating the TCE impacted soil at the site.

Laboratory results of the groundwater samples collected at the site have shown concentrations of TCE and, to a lesser extent, the breakdown product of cis-1,2-DCE. Laboratory results have shown relatively the same magnitude of TCE concentrations in all three wells. The direction of groundwater flow has been continuous in a northeasterly direction. Based on the sampling conducted to-date, laboratory results of groundwater collected from well MW-1, located adjacent to the former clarifier, have shown concentrations of TCE at the same magnitude as groundwater collected from MW-2 and MW-3, located crossgradient from MW-1. Based on the soil and groundwater data collected to-date, it appears that while the site may have slightly contributed to the degradation of groundwater, an off-site source is highly likely present as well. Based on the laboratory results of the three groundwater wells, the off-site source appears to have been a larger contributor to on-site groundwater degradation.

RECOMMENDATIONS

Based on the information obtained during this and previous sampling events, current regulatory guidelines, and our professional judgment, no further soil remediation is recommended. Ninyo & Moore recommends that confirmation borings be drilled in the vicinity of the former clarifier to assess whether the VES has mitigated the impacted soil. Furthermore, we respectively request that the RWQCB complete regulatory inquiries regarding surrounding properties to assess the location of possible off-site sources before any additional on-site groundwater investigations or monitoring is conducted.

If you have any questions or comments regarding this report, please call the undersigned at your convenience.

Sincerely,

NINYO & MOORE

Jeffrey D. Arbour Staff Environmental Scientist Paul A. Roberts, P.G., R.E.A. I/II Senior Environmental Geologist

JDA/PAR/emp

Attachments: Table 1 – Field Measurement Results of Vapor Extracted and Treated

Hydrocarbons

Table 2 – Summary of Laboratory Results of Vapor Samples

Table 3 – Summary of Groundwater Elevation Measurements

Table 4 – Summary of Laboratory Results of Groundwater Samples

Graph 1 – Trichloroethene (TCE) Concentrations Vs. Time from Multi-Purpose Well MW-1

Figure 1– Groundwater Monitoring Well Location Map

Attachment A – Vapor Laboratory Reports

Attachment B - Field Procedures and Groundwater Sampling Field Data Sheets

Attachment C – Laboratory Reports

Distribution: (2) Addressee

(1) John Allen, Esq., Allen Matkins Gamble & Mallory, LLP

(1) Mr. Mark Cousineau, Hazard Management Consulting, Inc.

(1) Mr. Paul Ohlmann, On Atlantic, LLC

REFERENCES

- Ninyo & Moore, 2002, Subsurface Investigation, 4650 Ardine Street and 8407-8415 South Atlantic Boulevard, Cudahy, California: Report Prepared for On Atlantic, LLC, Los Angeles, California, dated April 17.
- Ninyo & Moore, 2003a, Clarifier Closure Report, 8411 South Atlantic Boulevard, Cudahy, California: Report prepared for the Los Angeles County Department of Public Works, Alhambra, California, dated March 19.
- Ninyo & Moore, 2003b, Work Plan to Further Characterize Impacted Soil and Conduct a Feasibility/Pilot Study, 8411 South Atlantic Boulevard, Cudahy, California: Letter Report Prepared for the Los Angeles County Department of Public Works, Alhambra, California, dated October 15.
- Regional Water Quality Control Board, Los Angeles Region (RWQCB), 2004, California Water Code Section 13267 Request for Subsurface Investigation for Unauthorized Discharge at On Atlantic, LLC at 8411 South Atlantic Boulevard, Cudahy, California (SLIC No. 1148): Letter Report to On Atlantic, LLC, Los Angeles, California, dated June 9.

TABLE 1 – FIELD MEASURMENT RESULTS OF VAPOR EXTRACTED AND TREATED HYDROCARBONS

| | | | V | ES DATA | | | |
|------------------|-----------------|---|-------------|---------------------------------------|-------------------|----------------|----------------|
| End of | No. of Wells | Duration of Onesotion In Posical | Approximate | Annuarin eta Inlet Flore | Approxim | ate Inlet Con | centration |
| Period (date) | Online | Duration of Operation In Period (days) | Annrovimate | Approximate Inlet Flow Rate (SCFM) | Percent Oxygen | Percent LEL | VOCs (ppmv) |
| 4/20/2005 | 1 | 0.0 | | | | | |
| 4/21/2005 | 1 | 1.1 | 68 | 136 | 14.4 | 0 | 302 |
| 4/28/2005 | 1 | 7.0 | 68 | 136 | 16.9 | 0 | 310 |
| 5/18/2005 | 1 | 16.7 | 52 | 96 | 17.8 | 0 | 276 |
| 6/1/2005 | 1 | 12.2 | 58 | 92.5 | 17.5 | 0 | 236.9 |
| 6/9/2005 | 1 | 7.9 | 58 | 97 | 16.4 | 1 | 48.2 |
| 6/24/2005 | 1 | 15.0 | 59 | 87 | 16.5 | 0 | 128.3 |
| 7/8/2005 | 1 | 13.9 | 52 | 98 | 17.5 | 0 | 53.0 |
| 8/4/2005 | 1 | 16.9 | 50 | 98 | 17.4 | 1 | 128.0 |
| 8/19/2005 | 1 | 15.1 | 35 | ALMAN W | 20.5 | 0 | 6.9 |
| 8/22/2005 | 1 | 2.9 | | | === | | |
| Total Du | ıration (days) | 108.6 | | | | | |

Notes:

Measurements were taken by an LEL meter calibrated to hexane.

SCFM – vapor flow rate in standard cubic feet per minute

ppmv – concentration in parts per million by volume VOCs

--- – not available

VOCs – volatile organic compounds

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TABLE 2 – SUMMARY OF LABORATORY RESULTS OF VAPOR SAMPLES

| Sample | Date | | | | VOCs (pp | mv) | | | |
|------------|-------------------|------------|-------------|-----------------------|----------|-----|-----------|-----------|---------|
| ID | Sampled (time) | Chloroform | Cis-1,2-DCE | Methelyne Chloride | PCE | ТСЕ | 1,2,4-TMB | 1,3,5-TMB | Xylenes |
| | 4/20/2005 (9:45) | 0.22 | 0.38 | < 0.29 | 0.31 | 36 | 0.25 | < 0.2 | 1.24 |
| | 4/21/2005 (11:21) | <0.2 | < 0.25 | < 0.29 | 0.42 | 35 | 0.70 | 0.29 | 1.79 |
| | 4/28/2005 (9:54) | < 0.2 | 0.37 | < 0.29 | < 0.18 | 13 | < 0.13 | < 0.2 | < 0.23 |
| | 5/18/05 (8:45) | <0.2 | < 0.25 | < 0.29 | < 0.18 | 5.3 | < 0.13 | < 0.2 | < 0.23 |
| MW-1 | 6/9/05 (7:50) | < 0.2 | 0.75 | 1.7 | < 0.18 | 8.5 | < 0.13 | < 0.2 | < 0.23 |
| 101 00 - 1 | 6/24/05 (8:00) | <0.2 | 0.74 | < 0.29 | < 0.18 | 6.5 | <0.2 | <0.2 | < 0.23 |
| | 6/24/05 (9:35) | < 0.2 | 0.90 | 2.2 | < 0.18 | 7.5 | <0.2 | <0.2 | < 0.23 |
| | 7/22/05 (14:05) | <0.2 | 0.72 | < 0.29 | < 0.18 | 6 | < 0.2 | <0.2 | < 0.23 |
| | 8/4/05 (16:00) | < 0.2 | 0.42 | < 0.29 | < 0.18 | 6 | < 0.2 | < 0.2 | < 0.23 |
| | 8/22/05 (15:39) | < 0.2 | 0.45 | < 0.29 | < 0.18 | 4.8 | < 0.2 | < 0.2 | < 0.23 |

Notes:

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

ppmv – parts per million per volume

Cis-1,2-DCE – Cis-1,2-Dichloroethene

PCE – Tetrachloroethene

TCE - Trichloroethene

1,2,4-TMB – 1,2,4-Trimethylbenzene

1,3,5-TMB – 1,3,5-Trimethylbenzene

<0.2 – Less than 0.2 ppmv, the laboratory detection limit

TABLE 3 – SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS

| Well No. | | MW-1 | | | MW-2 | | | MW-3 | | | |
|------------------|-------|-----------|-------------------------------|-----------|-----------|-------------------------------|-----------|---------------|-------------------------------|--|--|
| Elevation of TOC | 99.62 | | | 100.09 | | | 99.95 | | | | |
| Date | Depth | Elevation | Change in Elevation (feet) | Depth | Elevation | Change in Elevation (feet) | Depth | Elevation | Change in Elevation (feet) | | |
| 9/8/2005 | 52.12 | 47.50 | +0.07 | 52.36 | 47.73 | 0.04 | 52.19 | 47.76 | 0.21 | | |
| 7/11/2005 | 52.19 | 47.43 | +0.54 | 52.40 | 47.69 | | 52.40 | 47.55 | | | |
| 3/15/2005 | 52.73 | 46.89 | - 0.03 | | | | | | | | |
| 12/22/2004 | 52.7 | 46.92 | +1.7 | | | | | | | | |
| 8/27/2004 | 54.4 | 45.22 | 00 NA 00 | M2 00 701 | UC 100 MM | 100 UV | AT 154 UK | and fine date | No. Art NA | | |

Notes:

TOC – top of casing

--- Not applicable. Wells MW-2 and MW-3 were installed on 7/5/05.

TABLE 4 – SUMMARY OF LABORATORY RESULTS OF GROUNDWATER SAMPLES

| Well | Date | | 100000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | | VOCs (µg/1) | | 000000000000000000000000000000000000000 | *************************************** |
|------------|------------|-------|---|---|------------|-------------|-------|---|---|
| No. | Sampled | BDCM | 1,1,2-TCA | 1,1-DCE | Chloroform | cis-1,2-DCE | PCE | Trans-1,2-DCE | TCE |
| | 9/8/2005 | 26 | <5.0 | < 5.0 | <5.0 | 110 | < 5.0 | 6.5 | 3,300 |
| | 7/11/2005 | < 5.0 | <5.0 | <5.0 | <5.0 | 89 | <5.0 | 5.7 | 2,900 |
| MW-1 | 3/15/2005 | < 5.0 | <5.0 | < 5.0 | <5.0 | 59 | < 5.0 | <5.0 | 1,700 |
| | 12/22/2004 | < 5.0 | <5.0 | <5.0 | <5.0 | 62 | < 5.0 | <5.0 | 1,900 |
| | 8/27/2004 | < 5.0 | 0.55 | 3.3 | 0.79 | 99 | 1.8 | 5.9 | 2,300 |
| MW-2 | 9/8/2005 | < 5.0 | < 5.0 | < 5.0 | <5.0 | 95 | < 5.0 | 6.0 | 2,500 |
| IVI VV -2 | 7/11/2005 | < 5.0 | <5.0 | <5.0 | <5.0 | 82 | <5.0 | 5.7 | 2,200 |
| MW-3 | 9/8/2005 | < 5.0 | < 5.0 | < 5.0 | <5.0 | 240 | < 5.0 | 13 | 2,800 |
| IVI VV -3 | 7/11/2005 | <5.0 | <5.0 | <5.0 | <5.0 | 200 | < 5.0 | 13 | 2,700 |
| Trip Blank | 9/8/2005 | < 5.0 | < 5.0 | < 5.0 | <5.0 | <5.0 | < 5.0 | < 5.0 | <5.0 |
| ттр ыалк | 7/11/2005 | < 5.0 | <5.0 | < 5.0 | <5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| EPA | MCL | NA | 5 | 7 | NA | 70 | 5 | 100 | 5 |
| CDHS | S MCL | NA | 5 | 6 | NA | 6 | 5 | 10 | 5 |

Notes:

VOCs – volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

ug/l – micrograms per liter

BDCM - bromodichloromethane

1,1,2-TCA – 1,1,2-trichloroethane

1,1-DCE – 1,1-dichloroethene

cis-1,2-DCE – cis-1,2-dichloroethene

PCE – tetrachloroethene

trans-1,2-DCE – trans-1,2-dichloroethene

TCE – trichloroethene

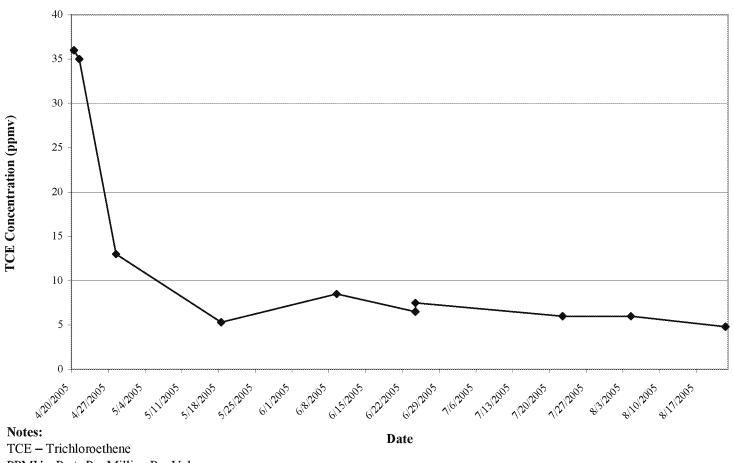
EPA MCLs – Environmental Protection Agency Maximum Contaminant Levels

CDHS MCLs – California Department of Health Services Maximum Contaminant Levels

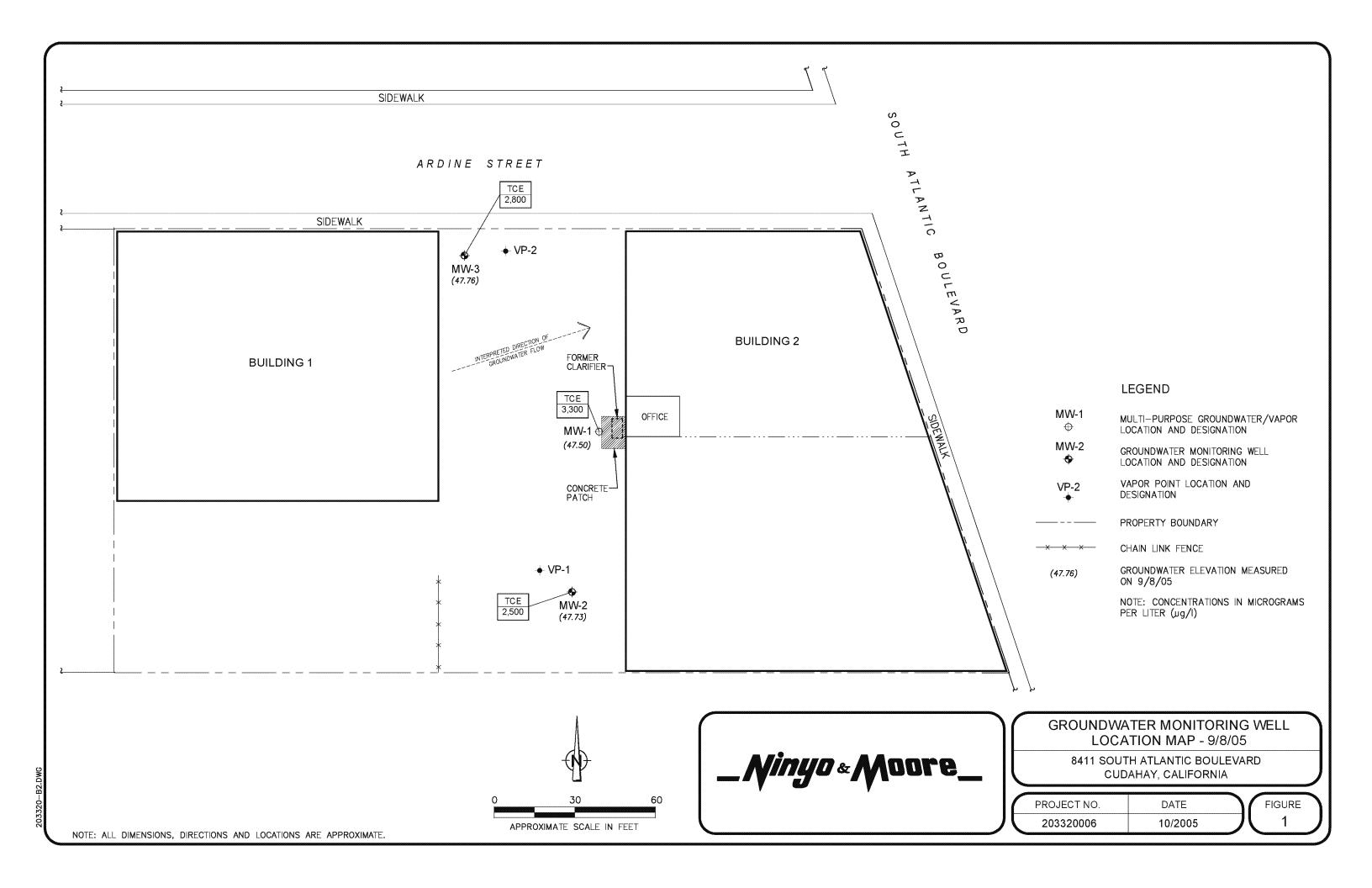
<5 – less than 5 μ g/l, the laboratory detection limit

NA – not available

GRAPH 1 - TCE CONCENTRATIONS VS. TIME FROM MULTI-PURPOSE WELL MW-1



PPMV – Parts Per Million Per Volume



ATTACHMENT A

VAPOR LABORATORY REPORTS



24 August 2005

Paul Roberts Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine, CA 92618

RE:Cudahy Site

Work Order No.:

0508455

Attached are the results of the analyses for samples received by the laboratory on 08/22/05 15:39.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Ninyo & Moore - Irvine

475 Goddard Suite 200 Irvine CA, 92618 Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/24/05 13:43

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| MW-1 | 0508455-01 | Vapor | 08/22/05 08:20 | 08/22/05 15:39 |

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 16°C, and accompanied by chain of custody documentation.

PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.

HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.

QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.



Project: Cudahy Site
Project Number: 203320005

Reported: 08/24/05 13:43

Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Project Manager: Paul Roberts

| A | | Reporting | | | _ | | | | |
|-----------------------------|-------------------------|-------------|----------|----------|---------|----------|----------|-----------|-------------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| MW-1 (0508455-01) Vapor | Sampled: 08/22/05 08:20 | Received: (| 08/22/05 | 15:39 | | | | | |
| Benzene | ND | 0.31 | ppmv | 1 | B5H2318 | 08/22/05 | 08/22/05 | EPA 8260B | ARTONOOOOOO |
| Bromobenzene | ND | 0.16 | ** | 11 | n | n | | ** | |
| Bromochloromethane | ND | 0.19 | tr | 11 | " | 11 | " | " | |
| Bromodichloromethane | ND | 0.15 | 17 | n | ** | 19 | n | " | |
| Bromoform | ND | 0.10 | 11 | Ħ | ** | 11 | ** | ** | |
| Bromomethane | ND | 0.26 | \$1 | n | Ħ | " | ** | 11 | |
| n-Butylbenzene | ND | 0.18 | ** | " | n | 91 | 19 | Ħ | |
| sec-Butylbenzene | ND | 0.18 | " | 11 | 11 | н | 19 | ** | |
| tert-Butylbenzene | ND | 0.18 | n | \$1 | Ħ | 95 | 11 | n | |
| Carbon tetrachloride | ND | 0.16 | 17 | u | " | ** | 8r | n | |
| Chlorobenzene | ND | 0.22 | 11 | n | n | 11 | br . | ** | |
| Chloroethane | ND | 0.38 | ¥ | ** | n | ** | | n | |
| Chloroform | ND | 0.20 | | 17 | ** | R | Ħ | # | |
| Chloromethane | . ND | 0.48 | ** | π | ** | Ħ | *1 | 11 | |
| 2-Chlorotoluene | ND | 0.19 | Ħ | Ħ | ** | н | Ħ | ti. | |
| 4-Chlorotoluene | ND | 0.19 | 11 | n | 11 | Ħ | 19 | n | |
| Dibromochloromethane | ND | 0.12 | 11 | n | 11 | 17 | 11 | 10 | |
| 1,2-Dibromo-3-chloropropane | | 0.52 | 11 | Ħ | " | 11 | 11 | 11 | |
| 1,2-Dibromoethane (EDB) | ND | 0.13 | " | 17 | 11 | 11 | 51 | n | |
| Dibromomethane | ND | 0.14 | Ħ | 11 | ** | 11 | ŧı | 91 | |
| 1,2-Dichlorobenzene | ND | 0.17 | Ħ | π | ** | 11 | ŧ | er . | |
| 1,3-Dichlorobenzene | ND | 0.17 | tt | 11 | 17 | n | *1 | ** | |
| 1,4-Dichlorobenzene | ND | 0.17 | bt . | n | ** | п | ** | u | |
| Dichlorodifluoromethane | ND | 0.24 | n | ŧī | ŧı | 17 | Ħ | 71 | |
| 1,1-Dichloroethane | ND | 0.25 | n | n | n | ** | ** | \$8 | |
| 1,2-Dichloroethane | ND | 0.25 | 11 | ** | ** | tr. | 11 | n | |
| 1,1-Dichloroethene | ND | 0.25 | 11 | ** | ** | ** | ,, | 31 | |
| cis-1,2-Dichloroethene | 0.45 | 0.25 | ** | ,, | ** | 91 | 12 | Ħ | |
| trans-1,2-Dichloroethene | ND | 0.25 | 71 | н | ** | Ħ | ** | n | |
| 1,2-Dichloropropane | ND | 0.22 | ** | " | ** | Ħ | | н | |
| 1,3-Dichloropropane | ND | 0.22 | н | 11 | n | 11 | " | н | |
| 2,2-Dichloropropane | ND | 0.22 | " | 11 | 11 | 11 | n | n | |
| 1,1-Dichloropropene | ND | 0.22 | 11 | ** | # | ,, | 19 | n | |
| cis-1,3-Dichloropropene | ND | 0.22 | 'n | ŧı | n | ** | ,, | и | |
| trans-1,3-Dichloropropene | ND ND | 0.22 | n | n | ** | 17 | " | 17 | |
| Ethylbenzene | ND ND | 0.22 | n | н | 11 | ĸ | ,, | n | |
| Hexachlorobutadiene | ND ND | 0.23 | ** | 11 | H | " | | | |
| Isopropylbenzene | ND ND | 0.090 | 17 | 11 | n | " | " ti | n | |
| p-Isopropyltoluene | ND ND | 0.20 | 11 | n | " | " " | и | | |
| Methylene chloride | ND ND | | n n | #1 | ** | " | , | " # | |
| • | | 0.29 | " n | " | " | | | | |
| Methyl tert-butyl ether | ND | 0.28 | и | ** | 17 | Ħ | Ħ | " | |



Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/24/05 13:43

Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

| A1 4 | Pr 14 | Reporting | XX '. | D3 // | Details | n 1 | A 1 .1 | 26.4 | ** |
|-----------------------------|-------------------------|-------------|---------|----------|---------|----------|----------|-----------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| MW-1 (0508455-01) Vapor | Sampled: 08/22/05 08:20 | Received: 0 | 8/22/05 | 15:39 | | | | | |
| Naphthalene | ND | 0.19 | ppmv | 1 | B5H2318 | 08/22/05 | 08/22/05 | EPA 8260B | |
| n-Propylbenzene | ND | 0.20 | 17 | 11 | 17 | tt | Ħ | 11 | |
| Styrene | ND | 0.24 | 17 | 11 | 17 | n | Ħ | Ħ | |
| 1,1,1,2-Tetrachloroethane | ND | 0.15 | ** | 91 | 11 | 81 | Ħ | π | |
| 1,1,2,2-Tetrachloroethane | ND | 0.15 | 15 | 61 | ** | 11 | n | Ħ | |
| Tetrachloroethene | ND | 0.18 | ** | n | n | 11 | ** | n | |
| Toluene | ND | 0.27 | 17 | 17 | H | ** | 11 | 77 | |
| 1,2,3-Trichlorobenzene | ND | 0.13 | 17 | 17 | н | Ħ | N* | 41 | |
| 1,2,4-Trichlorobenzene | ND | 0.13 | 17 | Ħ | 11 | Ħ | 11 | 11 | |
| 1,1,1-Trichloroethane | ND | 0.18 | 11 | ** | 19 | Ħ | 71 | Ħ | |
| 1,1,2-Trichloroethane | ND | 0.19 | †1 | st . | 19 | tt | 71 | H | |
| Trichloroethene | 4.8 | 0.18 | 17 | ħ | 11 | 17 | n | 11 | |
| Trichlorofluoromethane | ND | 0.39 | 17 | Ħ | ** | 11 | 11 | 11 | |
| 1,2,3-Trichloropropane | ND | 0.17 | 19 | 17 | 11 | ** | н | 11 | |
| 1,2,4-Trimethylbenzene | ND | 0.20 | 19 | 19 | 98 | W. | ** | ff | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | 11 | 51 | ** | ¥ | ** | 17 | |
| Vinyl chloride | ND | 0.39 | ** | 51 | 11 | n | n | 17 | |
| m,p-Xylene | ND | 0.23 | 19 | ** | 11 | rr | 11 | n | |
| o-Xylene | ND | 0.23 | 17 | # | 11 | " | n | ii | |
| Surrogate: Dibromofluoromet | hane | 107 % | 86 | -118 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98.4 % | 88 | -110 | " | " | " | n | |
| Surrogate: 4-Bromofluoroben | zene | 95.4 % | 86 | -115 | " | # | " | Ħ | |



Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/24/05 13:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Batch | B5H | 2318 | _ | EPA | 5030B | P | & | T |
|-------|-----|------|---|-----|-------|---|---|---|
| | | | | | | | | |

| Blank (B5H2318-BLK1) | | | | Prepared & Analyzed: 08/22/05 |
|-----------------------------|----|-------|-----------|-------------------------------|
| Benzene | ND | 0.31 | ppmv | |
| Bromobenzene | ND | 0.16 | *1 | |
| Bromochloromethane | ND | 0.19 | #1 | |
| Bromodichloromethane | ND | 0.15 | 11 | |
| Bromoform | ND | 0.10 | ŧ1 | |
| Bromomethane | ND | 0.26 | *1 | |
| n-Butylbenzene | ND | 0.18 | 11 | |
| ec-Butylbenzene | ND | 0.18 | 51 | |
| ert-Butylbenzene | ND | 0.18 | " | |
| Carbon tetrachloride | ND | 0.16 | ** | |
| Chlorobenzene | ND | 0.22 | ** | |
| Chloroethane | ND | 0.38 | ** | |
| Chloroform | ND | 0.20 | 11 | |
| Chloromethane | ND | 0.48 | ** | |
| 2-Chlorotoluene | ND | 0.19 | 11 | |
| 4-Chlorotoluene | ND | 0.19 | ** | |
| Dibromochloromethane | ND | 0.12 | 11 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.52 | 11 | |
| ,2-Dibromoethane (EDB) | ND | 0.13 | н | |
| Dibromomethane | ND | 0.14 | Ħ | |
| ,2-Dichlorobenzene | ND | 0.17 | 11 | |
| ,3-Dichlorobenzene | ND | 0.17 | Ħ | |
| 1,4-Dichlorobenzene | ND | 0.17 | Ħ | |
| Dichlorodifluoromethane | ND | 0.24 | Ħ | |
| ,1-Dichloroethane | ND | 0.25 | 77 | |
| ,2-Dichloroethane | ND | 0.25 | 11 | |
| ,1-Dichloroethene | ND | 0.25 | 11 | |
| ris-1,2-Dichloroethene | ND | 0.25 | n | |
| rans-1,2-Dichloroethene | ND | 0.25 | n | |
| 1,2-Dichloropropane | ND | 0.22 | 17 | |
| I,3-Dichloropropane | ND | 0.22 | it | |
| 2,2-Dichloropropane | ND | 0.22 | " | |
| I,1-Dichloropropene | ND | 0.22 | ri | |
| cis-1,3-Dichloropropene | ND | 0.22 | ** | |
| rans-1,3-Dichloropropene | ND | 0.22 | 17 | |
| Ethylbenzene | ND | 0.23 | ** | |
| Hexachlorobutadiene | ND | 0.090 | 77 | |



Project: Cudahy Site

Project Number: 203320005 Project Manager: Paul Roberts

Reported: 08/24/05 13:43

$\begin{tabular}{ll} \textbf{Volatile Organic Compounds by EPA Method 8260B-Quality Control} \\ \end{tabular}$

Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

| Ratch | B5H2318 - | EPA | 5030R | P&T | |
|-------|-----------|-----|-------|-----|--|
| | | | | | |

| Blank (B5H2318-BLK1) | | | | Prepared & An | alyzed: 08/22/ | 05 | |
|---------------------------------|------|------|------|---------------|-----------------|--------|--|
| Isopropylbenzene | ND | 0.20 | ppmv | | | | |
| p-Isopropyltoluene | ND | 0.18 | ** | | | | |
| Methylene chloride | ND | 0.29 | n | | | | |
| Methyl tert-butyl ether | ND | 0.28 | 87 | | | | |
| Naphthalene | ND | 0.19 | ** | | | | |
| n-Propylbenzene | ND | 0.20 | \$1 | | | | |
| Styrene | ND | 0.24 | Ħ | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.15 | 11 | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.15 | ** | | | | |
| Tetrachloroethene | ND | 0.18 | ņ | | | | |
| Toluene | ND | 0.27 | Ħ | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.13 | þ | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.13 | ** | | | | |
| 1,1,1-Trichloroethane | ND | 0.18 | tt | | | | |
| 1,1,2-Trichloroethane | ND | 0.19 | r | | | | |
| Trichloroethene | ND | 0.18 | IT | | | | |
| Trichlorofluoromethane | ND | 0.39 | #1 | | | | |
| 1,2,3-Trichloropropane | ND | 0.17 | 11 | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.20 | 17 | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | 11 | | | | |
| Vinyl chloride | ND | 0.39 | ** | | | | |
| m,p-Xylene | ND | 0.23 | ** | | | | |
| o-Xylene | ND | 0.23 | 51 | | | | |
| Surrogate: Dibromofluoromethane | 9.61 | | n | 9.33 | 103 | 86-118 | |
| Surrogate: Toluene-d8 | 12.1 | | " | 12.2 | 99.2 | 88-110 | |
| Surrogate: 4-Bromofluorobenzene | 7.29 | | n | 6.99 | 104 | 86-115 | |
| LCS (B5H2318-BS1) | | | | Prepared & Ar | nalyzed: 08/22/ | 05 | |
| Benzene | 15.0 | 0.31 | ppmv | 15.7 | 95.5 | 80-120 | |
| Chlorobenzene | 11.3 | 0.22 | н | 10.9 | 104 | 80-120 | |
| 1,1-Dichloroethene | 11.9 | 0.25 | 11 | 12.6 | 94.4 | 80-120 | |
| Toluene | 12.7 | 0.27 | * | 13.3 | 95.5 | 80-120 | |
| Trichloroethene | 9.02 | 0.18 | Ħ | 8.89 | 101 | 80-120 | |



Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/24/05 13:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch B5H2318 - EPA 5030B P & T

| Duplicate (B5H2318-DUP1) | e (B5H2318-DUP1) Source: 0508455-01 | | Prepared & Analyzed: 08/22/05 | | | |
|--------------------------|-------------------------------------|------|-------------------------------|-----|------|----|
| Benzene | ND | 0.31 | ppmv | ND | | 30 |
| Chlorobenzene | ND | 0.22 | 11 | ND | | 30 |
| 1,1-Dichloroethene | ND | 0.25 | 17 | ND | | 30 |
| Toluene | ND | 0.27 | 11 | ND | | 30 |
| Trichloroethene | 4.94 | 0.18 | u | 4.8 | 2.87 | 30 |



Project: Cudahy Site
Project Number: 203320005

Project Manager: Paul Roberts

Reported: 08/24/05 13:43

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

SIERRA ANALYTICAL

CHAIN OF CUSTODY RECORD

Date: 8,22,05 Page: / of /

TEL: 949 • 348 • 9389

FAX: 949 • 348 • 9115 26052 Merit Circle • Suite 105 • Laguna Hills CA • 92653

| | | | u mana, cr | - 74000 | | | | | | | | | ab work | Oluci | 140 | | - | |
|--------------------------------|--------|------------|-----------------------|---------|-----------------|-------------------|----------------|-------------|-------------------------------|--------------|-----------|-------------|-------------|---------------|------------|-----------|---------------|--|
| Client: Vinyo | 11 | none | | Cli | ent Project ID: | | | | | j | Anal | yses R | equest | ed | | | | |
| Client Address: | Å | | 110 | | | | | | | | | | | | | | | Geotracker EDD Info: |
| 475 | God | and | #200 | | | | | | | | | | | | | | | |
| Irvi | re C | A | 72618 | } | | | | | | | | | | | | | | |
| | | • | | . Turn | Around | Immediate | 24 Hour | | | | | | 1 | 1 | | | | Client LOGCODE |
| Client Tel. No.: 949 | 753- | 707 | 0 | Time | Requested: | 48 Hour | 72 Hour | Ø | | | | | | | | | Į | |
| Client Fax. No.: | 01 | , | | | | 4 Day | 3 5 Day | 09 | | | | | | | | | | |
| Client Proj. Mgr.: | Kok | ents | | | | | Mobile | 826 | · | | | | | | | | | Site Global ID |
| | Sierra |] | | | | 1 | No. of | 00 | | | | | | | | ' | | |
| Client Sample ID. | No. | Date | Time | Matrix | Preservative | Container Type | Containers | | | | | | | | | | | Field Point Names / |
| NA 14 / 1 | | 8/22 | 0.20 | AiR | 41/1 | 1, | 1 | | | | - | | | | +- | \vdash | | Comments |
| MW1 | 0(| 0/22 | 8:20 | HIN | N/A | Tedlar | ' | | | 44- | - | | | | <u> </u> | | | |
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| | 1000 | | | | | | | + + | | $+$ \vdash | + | | | | + | | | |
| | | | | | | | | \vdash | | +- | | | | - | - | \vdash | | |
| - | | | | | | | | | | Ц. | _ | | | | | | | |
| Sumpler Signature: | | | Shipped Via: | | | | | | ì | - | Total | Number | of Con | tainers | Submi | tted to | | Sample Disposal: |
| Printed Name: Shane s | Ranki | n | (Carrier Newbile No.) | _ | - 1 / | | | | 1 | 1 | Labo | ratory | | | | | | Return to Client |
| 2) / / . | | Date: 8/22 | Wild | NIK | 3(/ 1 | | B.71-15 | | livery of san | | | | | | | | | |
| Relinquished By | `` | | | MA | | | Time: 398 | | ization to pe ions, unicss | | | | | | | | | Lab Disposal * |
| Company: A Land | 44 | Time: 3:39 | | 1 IKK | MAR | | 7 | | mples deteri | nined to | be hazarı | lous by SII | ERRA will l | be return | ed to CL | IENT. | | Archive mos. |
| Refinquished Bik | | 8720 | acceived By: | adx | 1000 C | | .8.220 | S | 1 | | 1 | | er of Co | ntainer | s Recei | ived by | , | Other |
| Company: SVAVVA | | S-00 | Compuny: | - | a | | 17:00 | | 1 | | Lab | oratory | | | | | | |
| 4 | | | | | | | | FOR | BORATOR | USE O | ILY Sam | ple Receipt | onditions: | | | 1L | . 6 | |
| Relinquished By: | | Date: | Received By: | | | | Date: | | niaci Tari | | | | Chille | a , Lemp | | | | Survey of the second se |
| Company: Special Instructions: | | Time; | Company: | | | | Time: | | ample Scals | | | | 维护 法法 | City and Line | 244 | 272 | 1. 20 | |
| Opeciai Ameri activiis. | | | | | | | | 8 | roperly Calc | | | | Other | | 48 | | 1.16 | The state of the s |
| | | | | | | | | B | | | | | | | e VI | ble | i 4-r | les: |
| tev; 02 104 | | | | | | | | | ppropries. | ample C | Animuet # | | Sional | TRUBUTION | White - To | Accompany | ianples, Yeli | ow - Laboratory Copy, Pink - Field Personnel Copy |
| | | | | | | | | | | | | | | | | | | |



11 August 2005

Paul Roberts Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine, CA 92618

RE:NA

Work Order No.: 0508136

Attached are the results of the analyses for samples received by the laboratory on 08/04/05 16:00.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Ribora & Fronts

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Project: NA

Project Number: [none]
Project Manager: Paul Roberts

Reported: 08/11/05 11:47

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| MW1 | 0508136-01 | Vapor | 08/04/05 09:30 | 08/04/05 16:00 |

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 16°C, and accompanied by chain of custody documentation.

PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.

HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.

QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.



Project: NA

Project Number: [none]
Project Manager: Paul Roberts

Reported: 08/11/05 11:47

Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

| | | Reporting | | | | | | | 2.3300 |
|-----------------------------|-------------------------|-------------|-----------|----------|---------|----------|----------|-----------|--------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| MW1 (0508136-01) Vapor | Sampled: 08/04/05 09:30 | Received: 0 | 3/04/05 1 | 6:00 | | | | | |
| Benzene | ND | 0.31 | ppmv | 1 | B5H0811 | 08/05/05 | 08/05/05 | EPA 8260B | |
| Bromobenzene | ND | 0.16 | n | n | n | n | n | n | |
| Bromochloromethane | · ND | 0.19 | n | n | n | tr . | Ħ | Ħ | |
| Bromodichloromethane | ND | 0.15 | ** | ** | 11 | ** | u | n | |
| Bromoform | ND | 0.10 | Ħ | ** | 77 | n | 11 | 71 | |
| Bromomethane | ND | 0.26 | ** | Ħ | ** | 11 | ** | n | |
| n-Butylbenzene | ND | 0.18 | 97 | n | 41 | 11 | 17 | Ħ | |
| sec-Butylbenzene | ND | 0.18 | 17 | 91 | n | 11 | 11 | Ħ | |
| tert-Butylbenzene | ND | 0.18 | n | n | n | n | 17 | n | |
| Carbon tetrachloride | ND | 0.16 | ti | 17 | tt | Ħ | 17 | 11 | |
| Chlorobenzene | ND | 0.22 | Ħ | n | ** | n | n | n | |
| Chloroethane | ND | 0.38 | 11 | # | n | n | n | n | |
| Chloroform | ND | 0.20 | ** | 11 | ** | Ħ | " | 55 | |
| Chloromethane | ND | 0.48 | * | Ħ | 17 | 11 | n | n | |
| 2-Chlorotoluene | ND | 0.19 | n | n | so . | n | ** | n | |
| 4-Chlorotoluene | ND | 0.19 | n | ** | n | n | n | n | |
| Dibromochloromethane | ND | 0.12 | n | 41 | ŧı | n | n | Ħ | |
| 1,2-Dibromo-3-chloropropane | | 0.52 | Ħ | n | Ħ | n | Ħ | ** | |
| 1,2-Dibromoethane (EDB) | ND | 0.13 | n | n | 17 | n | # | n | |
| Dibromomethane | ND | 0.14 | 99 | n | n | " | n | ** | |
| 1,2-Dichlorobenzene | ND | 0.17 | 91 | п | ** | M | n | ** | |
| 1,3-Dichlorobenzene | ND | 0.17 | ** | n | Ħ | # | n | ** | |
| 1,4-Dichlorobenzene | ND | 0.17 | n | 29 | n | n | 11 | n | |
| Dichlorodifluoromethane | ND | 0.24 | 11 | ** | 71 | n | Ħ | ** | |
| 1,1-Dichloroethane | ND | 0.25 | | n | 11 | n | Ħ | \$T | |
| 1,2-Dichloroethane | ND | 0.25 | n | n | н | 59 | 11 | # | |
| 1,1-Dichloroethene | ND | 0.25 | Ħ | , | Ħ | n | 11 | 11 | |
| cis-1,2-Dichloroethene | 0.42 | 0.25 | * | n | 79 | n | 11 | 11 | |
| trans-1,2-Dichloroethene | ND | 0.25 | Ħ | ** | ** | n | n | n | |
| 1,2-Dichloropropane | ND | 0.23 | *1 | 11 | ,, | n | n | n | |
| 1,3-Dichloropropane | ND | 0.22 | # | 79 | ** | Ħ | ** | ** | |
| 2,2-Dichloropropane | ND ND | 0.22 | n | 11 | ** | π | n | n | |
| 1,1-Dichloropropene | ND | 0.22 | n | n | n . | " | 21 | Ħ | |
| cis-1,3-Dichloropropene | ND | 0.22 | n | ** | ** | n | # | # | |
| trans-1,3-Dichloropropene | ND ND | 0.22 | п | 77 | ** | W . | | n | |
| Ethylbenzene | ND | 0.22 | 17 | 14 | ** | Ħ | n | n | |
| Hexachlorobutadiene | ND ND | 0.090 | n | * | n | n | n | n | |
| Isopropylbenzene | ND | 0.030 | n | n | ** | n | 11 | 11 | |
| p-Isopropyltoluene | ND ND | 0.20 | n | n | n | ** | " | п | |
| Methylene chloride | ND ND | 0.18 | ,, | n | ,, | | " | | |
| Methyl tert-butyl ether | ND ND | 0.29 | u u | n | ** | " m | " " | ., n | |



Project: NA

Project Number: [none]
Project Manager: Paul Roberts

Reported: 08/11/05 11:47

Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

| | . . | Reporting | | W-11 .1 | | | | | |
|------------------------------|-------------------------|-------------|-----------|----------|------------|----------|----------|-----------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| MW1 (0508136-01) Vapor | Sampled: 08/04/05 09:30 | Received: 0 | 8/04/05 1 | 6:00 | | | | | |
| Naphthalene | ND | 0.19 | ppmv | 1 | B5H0811 | 08/05/05 | 08/05/05 | EPA 8260B | |
| n-Propylbenzene | ND | 0.20 | # | # | π | n | ** | п | |
| Styrene | ND | 0.24 | n | 77 | π | ** | 97 | π | |
| 1,1,1,2-Tetrachloroethane | ND | 0.15 | ** | n | \$1 | n | n | 11 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.15 | ** | Ħ | tı | Ħ | 91 | ** | |
| Tetrachloroethene | ND | 0.18 | ** | 71 | Ħ | 11 | Ħ | Ħ | |
| Toluene | ND | 0.27 | ** | ** | Ħ | 11 | Ħ | n | |
| 1,2,3-Trichlorobenzene | ND | 0.13 | ** | ** | n | # | n | 11 | |
| 1,2,4-Trichlorobenzene | ND | 0.13 | # | 11 | 11 | n | Ħ | Ħ | |
| 1,1,1-Trichloroethane | ND | 0.18 | ** | " | Ħ | ** | 71 | n | |
| 1,1,2-Trichloroethane | ND | 0.19 | ** | ** | Ħ | n | 71 | π | |
| Trichloroethene | 6.0 | 0.18 | ** | 11 | 11 | ** | ** | w | |
| Trichlorofluoromethane | ND | 0.39 | 81 | ** | Ħ | Ħ | # | # | |
| 1,2,3-Trichloropropane | ND | 0.17 | ŧ | 11 | 17 | n | *** | n | |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ŧI | ** | 17 | tr | 11 | Ħ | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ** | 11 | 11 | 11 | 29 | v | |
| Vinyl chloride | ND | 0.39 | Ħ | 11 | ** | 11 | 27 | n | |
| m,p-Xylene | ND | 0.23 | n | u u | Ħ | ** | Ħ | n | |
| o-Xylene | ND | 0.23 | ** | 17 | ** | " | ** | Ħ | |
| Surrogate: Dibromofluoromet | hane | 94.5 % | 86- | -118 | " | " | " | # | |
| Surrogate: Toluene-d8 | | 95.9 % | 88- | -110 | " | " | " | н | |
| Surrogate: 4-Bromofluorobena | ene | 95.6 % | 86- | -115 | " | " | " | " | |



Project: NA

Project Number: [none]
Project Manager: Paul Roberts

Reported: 08/11/05 11:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch B5H0811 - EPA 5030B P & T

| Blank (B5H0811-BLK1) | | | | Prepared & Analyzed: 08/05/05 |
|----------------------------|----|-------|------|-------------------------------|
| Benzene | ND | 0.31 | ppmv | |
| Bromobenzene | ND | 0.16 | 77 | |
| Bromochloromethane | ND | 0.19 | 77 | |
| Bromodichloromethane | ND | 0.15 | " | |
| Bromoform | ND | 0.10 | ** | |
| Bromomethane | ND | 0.26 | n | |
| n-Butylbenzene | ND | 0.18 | ** | |
| sec-Butylbenzene | ND | 0.18 | и | |
| tert-Butylbenzene | ND | 0.18 | ii. | |
| Carbon tetrachloride | ND | 0.16 | и | |
| Chlorobenzene | ND | 0.22 | n | |
| Chloroethane | ND | 0.38 | Ħ | |
| Chloroform | ND | 0.20 | ** | |
| Chloromethane | ND | 0.48 | n | |
| 2-Chlorotoluene | ND | 0.19 | 11 | · |
| 4-Chlorotoluene | ND | 0.19 | n | |
| Dibromochloromethane | ND | 0.12 | n | |
| ,2-Dibromo-3-chloropropane | ND | 0.52 | 77 | |
| 1,2-Dibromoethane (EDB) | ND | 0.13 | 17 | |
| Dibromomethane | ND | 0.14 | 77 | |
| ,2-Dichlorobenzene | ND | 0.17 | n | |
| 1,3-Dichlorobenzene | ND | 0.17 | n | |
| 1,4-Dichlorobenzene | ND | 0.17 | n | |
| Dichlorodifluoromethane | ND | 0.24 | n | |
| 1,1-Dichloroethane | ND | 0.25 | n | |
| ,2-Dichloroethane | ND | 0.25 | n | |
| ,1-Dichloroethene | ND | 0.25 | ** | |
| ris-1,2-Dichloroethene | ND | 0.25 | 17 | |
| rans-1,2-Dichloroethene | ND | 0.25 | n | |
| ,2-Dichloropropane | ND | 0.22 | # | |
| ,3-Dichloropropane | ND | 0.22 | n | |
| 2,2-Dichloropropane | ND | 0.22 | ** | |
| ,1-Dichloropropene | ND | 0.22 | Ħ | |
| is-1,3-Dichloropropene | ND | 0.22 | n | |
| rans-1,3-Dichloropropene | ND | 0.22 | ,, | |
| Ethylbenzene | ND | 0.23 | n | |
| Hexachlorobutadiene | ND | 0.090 | n | |



Project: NA

Project Number: [none]
Project Manager: Paul Roberts

Reported: 08/11/05 11:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|--|--------|------|--------|---|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| | | | | ······································ | | | | *************************************** | | |

| Blank (B5H0811-BLK1) | | | | Prepared & Ar | nalvzed: 08/05/ | 05 | |
|---------------------------------|------|------|------|---------------|-----------------|--------|--|
| Isopropylbenzene | ND | 0.20 | ppmv | abamam aa yax | | | |
| p-Isopropyltoluene | ND | 0.18 | ** | | | | |
| Methylene chloride | ND | 0.29 | n | | | | |
| Methyl tert-butyl ether | ND | 0.28 | 11 | | | | |
| Naphthalene | ND | 0.19 | tr | | | | |
| n-Propylbenzene | ND | 0.20 | 17 | | | | |
| Styrene | ND | 0.24 | n | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.15 | н | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.15 | Ħ | | | | |
| Tetrachloroethene | ND | 0.18 | Ħ | | | | |
| Toluene . | ND | 0.27 | 11 | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.13 | tı | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.13 | Ħ | | | | |
| ,1,1-Trichloroethane | ND | 0.18 | 11 | | | | |
| ,1,2-Trichloroethane | ND | 0.19 | 11 | | | | |
| Trichloroethene | ND | 0.18 | 11 | | | | |
| Frichlorofluoromethane | ND | 0.39 | 51 | | | | |
| ,2,3-Trichloropropane | ND | 0.17 | 11 | | | | |
| ,2,4-Trimethylbenzene | ND | 0.20 | *1 | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | Ħ | | | | |
| Vinyl chloride | ND | 0.39 | ** | | | | |
| n,p-Xylene | ND | 0.23 | n | | | | |
| o-Xylene | ND | 0.23 | ** | | | | |
| Surrogate: Dibromofluoromethane | 8.85 | | n | 9.33 | 94.9 | 86-118 | |
| Surrogate: Toluene-d8 | 11.8 | | " | 12.2 | 96.7 | 88-110 | |
| Surrogate: 4-Bromofluorobenzene | 6.67 | | n | 6.99 | 95.4 | 86-115 | |
| LCS (B5H0811-BS1) | | | | Prepared & Ar | nalyzed: 08/05/ | 05 | |
| Benzene | 15.5 | 0.31 | ppmv | 15.7 | 98.7 | 80-120 | |
| Chlorobenzene | 11.3 | 0.22 | ** | 10.9 | 104 | 80-120 | |
| ,1-Dichloroethene | 11.1 | 0.25 | n | 12.6 | 88.1 | 80-120 | |
| Foluene | 14.0 | 0.27 | 17 | 13.3 | 105 | 80-120 | |
| [richloroethene | 9.34 | 0.18 | Ħ | 8.89 | 105 | 80-120 | |



Project: NA

Project Number: [none]
Project Manager: Paul Roberts

Reported: 08/11/05 11:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch B5H0811 - EPA 5030B P & T

| Duplicate (B5H0811-DUP1) | Source | e: 050813 | 6-01 | Prepared & Analyzed: 08/05/05 | | |
|--------------------------|--------|-----------|------|-------------------------------|------|----|
| Benzene | ND | 0.31 | ppmv | ND | | 30 |
| Chlorobenzene | ND | 0.22 | n | ND | | 30 |
| 1,1-Dichloroethene | ND | 0.25 | n | ND | | 30 |
| Toluene | ND | 0.27 | 91 | ND | | 30 |
| Trichloroethene | 6.09 | 0.18 | n | 6.0 | 1.49 | 30 |



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project: NA

Project Number: [none]
Project Manager: Paul Roberts

Reported: 08/11/05 11:47

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

SIERRA ANALYTICAL

CHAIN OF CUSTODY RECORD

Date: 8-4-05

Page: ______ of ____

TEL: 949 • 348 • 9389 FAX: 949 • 348 • 9115

26052 Merit Circle • Suite 105 • Laguna Hills, CA • 92653

Bream

Cab Work Order No.: 0508136

| | C Gatte 103 Enguine | * ******** | | | · | | | | | ن | | L. | AD WOLK | Oracr | 140.: | سكك | | 0.50 |
|-----------------------------|--|-----------------------|----------|-----------------|---|------------|------|------------|----------|-------|----------|---------------|---------------------|-------------|---------------|---------------------|-----|---------------------------------|
| Client: ////// C | + MOORE | | Cli | ent Project ID: | | | | | | A | Lnaly | ses R | equest | ed | | | | |
| Client Address: | , | | | | | | | | | | 1 | | | | | | | Geotracker EDD Info: |
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| | | <u></u> | Turn | Around | Immediate C | 24 Hour | | | | | 1 | | | | | | | Client LOGCODE |
| Client Tel. No.: 949 | -753-70 | 70 | Time | n . | | 72 Hour | | | | | - 1 | | | | | | | |
| Client Fax. No.: 049 | 753-70 | · / | | | | 3 5 Day | M | . | | 1 | - 1 | | | | | | | |
| Client Proj. Mgr.: Paul | RORORT | | | _ | | Mobile | 0 | | | : | | | | | | | | Site Global ID |
| 7,400 | [Annewsen] | | <u>L</u> | | | No. of | 1 | | | ! | | | | | | | | |
| Client Sample ID. | Sierra Date | Time | Matrix | Preservative | Container Type | Containers | 8 | | | - | | | | | | | | Field Point Names / Comments |
| MWI | 84-05 | 930 AM | AIR | a)A | TedLAK | · 1 | X | | | | | | | | | | | |
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| | | | | | | | | L | | | | | | | <u> </u> | | | |
| Sampler Signature | | Shipped Via: | | | | | | | | | Total 1 | Number | of Con | ainers | Submi | tted to | | Sample Disposal: |
| Printed Name: Tim HILL esTA | l | (Carries Vayb li No.) | | | | | | l | | | Labora | tory | | | | | - 1 | Return to Client |
| | 1 8/u | MIN | Q N V K | 120 | | Q-1-1 | | | | | | | chain of c | | | | | |
| Reliaguished By: | Date: | Received MA | MY | | *************************************** | 11.7 | | | | | | | bove under | | | | | Lab Disposal * |
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| Relinquishery | 9-4-0 | Decived by | Sert ? | | | 40060S | | | | | Total | Numbe | er of Co | ntainer | s Rece | ived by | , | Other |
| C1200 10 10 | ANC | Camazay | Sort | Δ | | 1640 | |) | | | Labo | • | | | | | 1 | |
| Company: | I Note: | y | - 12 T | | *************************************** | same. | PORL | ABORATO | RY USE | onc | Y Sampi | Roceipi (| Conditions, | ing in | | ı P | , o | Landing St. 19 |
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| Por MIM | | | | | | | | Appropria | e Samp | e Con | ainer (| | 고 ^{(Slote} | re Locati | un 11/A | COLD A | | באשעבבעוני |
| | | | | | | | | | | | | | | | | | | |



02 August 2005

Paul Roberts Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine, CA 92618

RE:Cudahy Site

Work Order No.: 0507356

Attached are the results of the analyses for samples received by the laboratory on 07/22/05 14:05.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

behard I Formthe

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Ninyo & Moore - Irvine

Project: Cudahy Site

Project Number: 203320005

Reported: 08/02/05 12:51

475 Goddard Suite 200 Irvine CA, 92618

Project Manager: Paul Roberts

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| MW-1 | 0507356-01 | Vapor | 07/22/05 12:30 | 07/22/05 14:05 |

CASE NARRATIVE

SAMPLE RECEIPT:

Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.

PRESERVATION:

Samples requiring preservation were verified prior to sample preparation and analysis.

HOLDING TIMES:

All holding times were met, unless otherwise noted in the report with data qualifiers.

QA/QC CRITERIA:

All quality objective criteria were met, except as noted in the report with data qualifiers.



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/02/05 12:51

Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

| | | Reporting | *************************************** | | | | | *************************************** | |
|-----------------------------|-------------------------|-------------|---|----------|---------|----------|----------|---|---|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| MW-1 (0507356-01) Vapor | Sampled: 07/22/05 12:30 | Received: (| 07/22/05 1 | 14:05 | | | | *************************************** | *************************************** |
| Benzene | ND | 0.31 | ppmv | 1 | B5G2813 | 07/22/05 | 07/22/05 | EPA 8260B | |
| Bromobenzene | ND | 0.16 | 19 | 11 | 17 | 17 | 11 | T | |
| Bromochloromethane | ND | 0.19 | 17 | 77 | n | ** | ** | 11 | |
| Bromodichloromethane | ND | 0.15 | 67 | ** | 17 | π | 11 | ** | |
| Bromoform | ND | 0.10 | 87 | ** | 17 | 99 | 99 | 11 | |
| Bromomethane | ND | 0.26 | Ħ | Ħ | tr | 71 | 97 | W | |
| n-Butylbenzene | ND | 0.18 | n | n | IT | 11 | 11 | 17 | |
| sec-Butylbenzene | ND | 0.18 | n | 11 | 17 | π | n | н . | |
| tert-Butylbenzene | ND | 0.18 | n | 11 | IT | *1 | n | n | |
| Carbon tetrachloride | ND | 0.16 | n | Ħ | n | n | n | Ħ | |
| Chlorobenzene | ND | 0.22 | ** | n | n | n | u | ti . | |
| Chloroethane | ND | 0.38 | n | n | 17 | 27 | 47 | ** | |
| Chloroform | ND | 0.20 | n | n | 17 | 77 | 17 | 77 | |
| Chloromethane | ND | 0.48 | Ħ | 11 | 11 | ** | 11 | " | |
| 2-Chlorotoluene | ND | 0.19 | 87 | n | Ħ | n | 11 | # | |
| 4-Chlorotoluene | ND | 0.19 | n | ** | 11 | w | 11 | 11 | |
| Dibromochloromethane | ND | 0.12 | Ħ | 11 | n | ** | 19 | 11 | |
| 1,2-Dibromo-3-chloropropane | | 0.52 | n | 11 | W. | Ħ | n | n | |
| 1,2-Dibromoethane (EDB) | ND | 0.13 | n | n | 11 | 11 | n | n | |
| Dibromomethane | ND | 0.14 | 11 | 11 | n | # | 11 | n | |
| 1,2-Dichlorobenzene | ND | 0.17 | 58 | 11 | n | π | Ħ | n | |
| 1,3-Dichlorobenzene | ND | 0.17 | н | n | 11 | 11 | 11 | 11 | |
| 1,4-Dichlorobenzene | ND | 0.17 | ** | n | ** | 17 | Ħ | n | |
| Dichlorodifluoromethane | ND | 0.24 | n | 11 | 17 | ** | n | n | |
| 1,1-Dichloroethane | ND | 0.25 | 17 | n | 17 | 17 | п | n | |
| 1,2-Dichloroethane | ND | 0.25 | 87 | n | ** | π | n | 11 | |
| 1,1-Dichloroethene | ND | 0.25 | 17 | 'n | ** | 47 | Ħ | ** | |
| cis-1,2-Dichloroethene | 0.72 | 0.25 | # | ** | ** | 17 | Ħ | ** | |
| trans-1,2-Dichloroethene | ND | 0.25 | n | n | n | 17 | Ħ | n | |
| 1,2-Dichloropropane | ND | 0.22 | n | n | 11 | 17 | 17 | 11 | • |
| 1,3-Dichloropropane | ND | 0.22 | 11 | 17 | 11 | 11 | ** | ** | |
| 2,2-Dichloropropane | ND | 0.22 | n | 11 | 11 | ** | 87 | ** | |
| 1,1-Dichloropropene | ND | 0.22 | 57 | ** | 11 | 17 | п | ** | |
| cis-1,3-Dichloropropene | ND | 0.22 | н | 17 | n | ** | 11 | 17 | |
| trans-1,3-Dichloropropene | ND | 0.22 | 17 | 17 | 11 | 11 | n | п | |
| Ethylbenzene | ND | 0.22 | 11 | 17 | ** | 11 | n | iτ | |
| Hexachlorobutadiene | ND | 0.090 | 11 | 11 | n | ** | 11 | 17 | |
| Isopropylbenzene | ND ND | 0.090 | tr | ff | Ħ | 11 | n | 11 | |
| p-Isopropyltoluene | ND ND | 0.20 | \$T | Ħ | ŧr | n | 77 | 11 | |
| Methylene chloride | ND ND | 0.18 | | 11 | n | π | | π | |
| • | | | | 11 | n | " 7 | | | |
| Methyl tert-butyl ether | ND | 0.28 | ** | ** | | " | " | n | |



Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/02/05 12:51

Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

| | | Reporting | | | | | | | |
|-----------------------------|-------------------------|-------------|---------|----------|---------|----------|----------|-----------|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| MW-1 (0507356-01) Vapor | Sampled: 07/22/05 12:30 | Received: 0 | 7/22/05 | 14:05 | | | | | |
| Naphthalene | ND | 0.19 | ppmv | 1 | B5G2813 | 07/22/05 | 07/22/05 | EPA 8260B | |
| n-Propylbenzene | ND | 0.20 | n | ** | Ħ | ti | ŧŧ | 11 | |
| Styrene | ND | 0.24 | 77 | n | Ħ | Ħ | ** | н | |
| 1,1,1,2-Tetrachloroethane | ND | 0.15 | eş | 11 | 11 | n | π | 11 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.15 | 17 | 11 | n | Ħ | 11 | ** | |
| Tetrachloroethene | ND | 0.18 | 17 | Ħ | Ħ | 17 | 11 | H. | |
| Toluene | ND | 0.27 | 57 | ** | Ħ | Ħ | 77 | 11 | |
| 1,2,3-Trichlorobenzene | ND | 0.13 | 57 | # | Ħ | 11 | 17 | 79 | |
| 1,2,4-Trichlorobenzene | ND | 0.13 | n | Ħ | Ħ | # | 11 | 11 | |
| 1,1,1-Trichloroethane | ND | 0.18 | 37 | π | n | Ħ | Ħ | 11 | |
| 1,1,2-Trichloroethane | ND | 0.19 | 17 | Ħ | Ħ | Ħ | Ħ | п | |
| Trichloroethene | 6.0 | 0.18 | 17 | 11 | 11 | 11 | Ħ | Ħ | |
| Trichlorofluoromethane | ND | 0.39 | 55 | # | 11 | 17 | Ħ | ři . | |
| 1,2,3-Trichloropropane | ND | 0.17 | \$\$ | п | Ħ | Ħ | n | TT . | |
| 1,2,4-Trimethylbenzene | ND | 0.20 | 31 | Ħ | m | ** | 91 | TT . | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | 17 | n | 11 | 11 | 57 | Ħ | |
| Vinyl chloride | ND | 0.39 | ŧ | n | Ħ | tt | 11 | rr . | |
| m,p-Xylene | ND | 0.23 | 91 | n | 17 | P | 27 | π | |
| o-Xylene | ND | 0.23 | n | Ħ | 77 | 19 | 11 | ** | |
| Surrogate: Dibromofluorome | thane | 89.5 % | 86 | i-118 | 11 | " | " | " | |
| Surrogate: Toluene-d8 | | 96.7 % | 88 | R-110 | " | " | " | " | |
| Surrogate: 4-Bromofluoroben | zene | 94.6 % | 86 | -115 | " | " | " | " | |



Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/02/05 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch B5G2813 - EPA 5030B P & T

| Blank (B5G2813-BLK1) | | | | Prepared & Analyzed: 07/26/05 |
|-----------------------------|----|-------|------|-------------------------------|
| Benzene | ND | 0.31 | ppmv | |
| Bromobenzene | ND | 0.16 | Ħ | |
| Bromochloromethane | ND | 0.19 | Ħ | |
| Bromodichloromethane | ND | 0.15 | ** | |
| Bromoform | ND | 0.10 | Ħ | |
| Bromomethane | ND | 0.26 | 11 | |
| n-Butylbenzene | ND | 0.18 | 11 | |
| sec-Butylbenzene | ND | 0.18 | 17 | |
| tert-Butylbenzene | ND | 0.18 | ** | |
| Carbon tetrachloride | ND | 0.16 | n | |
| Chlorobenzene | ND | 0.22 | n | |
| Chloroethane | ND | 0.38 | н | |
| Chloroform | ND | 0.20 | Ħ | |
| Chloromethane | ND | 0.48 | n | |
| 2-Chlorotoluene | ND | 0.19 | n | |
| 4-Chlorotoluene | ND | 0.19 | ** | |
| Dibromochloromethane | ND | 0.12 | 27 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.52 | 19 | |
| 1,2-Dibromoethane (EDB) | ND | 0.13 | 17 | |
| Dibromomethane | ND | 0.14 | 11 | |
| 1,2-Dichlorobenzene | ND | 0.17 | 11 | |
| 1,3-Dichlorobenzene | ND | 0.17 | 11 | |
| 1,4-Dichlorobenzene | ND | 0.17 | 19 | |
| Dichlorodifluoromethane | ND | 0.24 | 11 | |
| 1,1-Dichloroethane | ND | 0.25 | 11 | |
| 1,2-Dichloroethane | ND | 0.25 | 11 | |
| 1,1-Dichloroethene | ND | 0.25 | 11 | |
| cis-1,2-Dichloroethene | ND | 0.25 | 11 | |
| trans-1,2-Dichloroethene | ND | 0.25 | # | |
| 1,2-Dichloropropane | ND | 0.22 | # | |
| 1,3-Dichloropropane | ND | 0.22 | 17 | |
| 2,2-Dichloropropane | ND | 0.22 | 11 | |
| 1,1-Dichloropropene | ND | 0.22 | n | |
| cis-1,3-Dichloropropene | ND | 0.22 | 11 | |
| trans-1,3-Dichloropropene | ND | 0.22 | n | |
| Ethylbenzene | ND | 0.23 | n | |
| Hexachlorobutadiene | ND | 0.090 | 17 | |
| | | | | |



Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine CA, 92618 Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/02/05 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|--------|--------------------|---|----------------|------------------|------------|----------------|-----|--------------|---|
| Batch B5G2813 - EPA 5030B P & T | | | | | , | | | | | |
| Blank (B5G2813-BLK1) | | | *************************************** | Prepared o | & Analyze | ed: 07/26/ | 05 | | | *************************************** |
| Isopropylbenzene | ND ND | 0.20 | ppmv | | | | | | | |
| p-Isopropyltoluene | ND | 0.18 | H. | | | | | | | |
| Methylene chloride | ND | 0.29 | ** | | | | | | | |
| Methyl tert-butyl ether | ND | 0.28 | Ħ | | | | | | | |
| Naphthalene | ND | 0.19 | ** | | | | | | | |
| n-Propylbenzene | ND | 0.20 | 11 | | | | | | | |
| Styrene | ND | 0.24 | 41 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.15 | n | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.15 | • | | | | | | | |
| Tetrachloroethene | ND | 0.18 | 50 | | | | | | | |
| Toluene | ND | 0.27 | ** | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.13 | ** | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.13 | ** | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.18 | ** | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.19 | ** | | | | | | | |
| Trichloroethene | ND | 0.18 | 61 | | | | | | | |
| Trichlorofluoromethane | ND | 0.39 | n | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.17 | n | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.20 | * | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | 17 | | | | | | | |
| Vinyl chloride | ND | 0.39 | 11 | | | | | | | |
| m,p-Xylene | ND | 0.23 | n | | | | | | | |
| o-Xylene | ND | 0.23 | # | | | | | | | |
| Surrogate: Dibromofluoromethane | 8.36 | | и | 9.33 | | 89.6 | 86-118 | | | |
| Surrogate: Toluene-d8 | 11.8 | | " | 12.2 | | 96.7 | 88-110 | | | |
| Surrogate: 4-Bromofluorobenzene | 6.60 | | n | 6.99 | | 94.4 | 86-115 | | | |
| LCS (B5G2813-BS1) | | | | Prepared of | & Analyze | :d: 07/26/ | 05 | | | |
| Benzene | 16.1 | 0.31 | ppmv | 15.7 | | 103 | 80-120 | | | |
| Chlorobenzene | 11.1 | 0.22 | " | 10.9 | | 102 | 80-120 | | | |
| 1,1-Dichloroethene | 11.7 | 0.25 | ** | 12.6 | | 92.9 | 80-120 | | | |
| Toluene | 13.3 | 0.27 | 11 | 13.3 | | 100 | 80-120 | | | |
| Trichloroethene | 8.63 | 0.18 | 11 | 8.89 | | 97.1 | 80-120 | | | |

 $The \ results \ in \ this \ report \ apply \ to \ the \ samples \ analyzed \ in \ accordance \ with \ the \ chain \ of \ custody \ document. \ This \ analytical \ report \ must \ be \ reproduced \ in \ its \ entirety.$



Ninyo & Moore - Irvine 475 Goddard Suite 200 Irvine CA, 92618 Project: Cudahy Site

Project Number: 203320005 Project Manager: Paul Roberts

Reported: 08/02/05 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------|--------|-----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch B5G2813 - EPA 5030B P & T

| Duplicate (B5G2813-DUP1) | Source: 0507356-01 | | Prepared & Analyzed: 07/26/05 | | | | |
|--------------------------|--------------------|------|-------------------------------|-----|------|----|--|
| Benzene | ND | 0.31 | ppmv | ND | | 30 | |
| Chlorobenzene | ND | 0.22 | ** | ND | | 30 | |
| 1,1-Dichloroethene | ND | 0.25 | n | ND | | 30 | |
| Toluene | ND | 0.27 | H | ND | | 30 | |
| Trichloroethene | 5.42 | 0.18 | 11 | 6.0 | 10.2 | 30 | |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ninyo & Moore - Irvine 475 Goddard Suite 200

Irvine CA, 92618

Project: Cudahy Site

Project Number: 203320005
Project Manager: Paul Roberts

Reported: 08/02/05 12:51

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rev: 021104

SIERRA ANALYTICAL

CHAIN OF CUSTODY RECORD

TEL: 949 • 348 • 9389 FAX: 949 • 348 • 9115 Date: 7 122,05

Page: ______ of ____

0507356 26052 Merit Circle • Suite 105 • Laguna Hills, CA • 92653 Lab Work Order No.: Client: Client Project ID: Analyses Requested Client Address: Geotracker EDD Info: Client LOGCODE Immediate 24 Hour Time Requested: Client Tel. No.: 48 Hour 72 Hour ∞ Client Fax. No.: 4 Day 5 Day Site Global ID Client Proj. Mgr.: Mobile Normal Container Client Sample ID. Preservative Date Time Matrix Field Point Names / Containers Type TedLAR Total Number of Containers Submitted to Sample Disposal: Laboratory Return to Client The delivery of samples and the signature on this chain of custody form constitutes Lab Disposal * authorization to perform the analyses specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT. Samples determined to be hazardous by SIERRA will be returned to CLIENT. Total Number of Containers Received by Laboratory Relinquished Special Instructions:

ATTACHMENT B

FIELD PROCEDURES AND GROUNDWATER SAMPLING FIELD DATA SHEETS

FIELD PROCEDURES

Purge Method Groundwater Sample Collection Procedures

- 1. Field activities and equipment utilization were recorded on Groundwater Sampling Field Data Sheets.
- 2. The water level and depth to the bottom of each well was measured using a conductance probe, the measurements were recorded to the nearest 0.01 foot. Prior to use, the probe was rinsed in an Alconox solution (an inorganic detergent), followed by two deionized-water rinses.
- 3. The volume of water (in gallons) contained in the well casings was estimated using the following equation:

Casing Volume (gallons)=
$$\pi \times h \times 7.5 \times r_1^2$$

Where r_1 equals the radius of the well casing, h equals the height of the water in the well, $\pi = 3.14$, and 7.5 is equal to gallons per 1 cubic foot of water.

- 4. Prior to initiating a sampling program, the wells were purged of standing water. A water sample was collected following the removal of a minimum of three casing volumes of water and/or stabilization of pH, temperature, and electrical conductivity readings to within 5 percent of each other for three subsequent measurements.
- 5. A 55-gallon drum was used to measure the volume of water removed.
- 6. Disposable bailers were used for sampling the wells.
- 7. New line was used on the sampling bailers for each well.
- 8. Water samples were collected by lowering the bailer approximately 2 to 4 feet below the static groundwater level and raising the bailer slowly in order to minimize agitation of the water sample in the bailer.
- 9. Water was discharged from the bailer through a bottom discharge valve placed on the bottom of the sample container. Discharge to the sample container was conducted at a rate slow enough to minimize bubbling or significant agitation of the liquid. The sample container was filled to the top (from the bottom up) and overfilled leaving no remaining headspace.
- 10. Samples were collected in laboratory-approved 40-milliliter glass vials with Teflon septum lids.



Sample Handling

- 1. The samples retained for chemical analyses were placed in Ziploc bags and stored in an ice chest cooled, using ice, to a temperature of approximately 40 degrees Fahrenheit.
- 2. The samples were delivered to and analyzed by a State-certified hazardous waste laboratory within 24 hours of collection. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures, including the use of chain-of-custody form.

MONITORING WELL SAMPLING FORM

Date

9/1/05

| Project Name: Cudahy | | Client: | Job No: 203320006 | | | |
|--------------------------------|---|--|--------------------|--|--|--|
| Address: 8411 South Atlantic B | oulevard | Contact/Phone: | · | | | |
| City/State: Cudahy, California | | Technician Gauguing/Sampling: Darren Burgett | | | | |
| Note: All measurements from | n top of casing. | | Well Location: mw- | | | |
| WELL NO. | Depth to Liquid (DL): | 52.12 | | | | |
| Casing Material: PVC | Depth to Water (DW1): | 52.12 | 17,9x3=53,7pl | | | |
| Diameter: 4" | Product Thickness (PT= | DW1-DL): | • | | | |
| Well Head Condition: | Total Well Depth (TD): | 79.46 | | | | |
| Well Box Condition: | Total head (TH=TD-DV | 11): 27,54 | | | | |
| Purge Method: Pump | Casing Volume (TH*Fa | ctor): 17.9 | | | | |
| Casing Vol. Conv. Factors: | 2" = 0.16 ; 3" = 0.36 ; 4"=0.6 | 5; 6" = 1.5 gal/ft. | | | | |
| 1/2 | $a'' = 0.01; \ \frac{3}{4}'' = 0.023$ | | | | | |

| Time | Vol. | Temp | Cond | pН | Turb | Remarks |
|------|--------|---------|---------|------|-------|--------------------------|
| | Purged | (°F/°C) | (uS/cm) | | (NTU) | |
| 0948 | 0_ | 70.8 | 1.19 | 8,01 | 21.1 | Clear, no oder, no sheen |
| 095) | 5 | 70.4 | 1,18 | 7.98 | 18.50 | 11 |
| 0954 | 10 | 70.0 | 1.17 | 7,97 | 14.6 | 1) |
| 0959 | 15 | 69.9 | 1.16 | 8,01 | 9,92 | n . |
| 1002 | 20 | 69.9 | 1.16 | 7,94 | 6.26 | , t |
| 1004 | 25 | 70.0 | 1,17 | 7.96 | 3.50 | |
| 1006 | 30. | 70.1 | 1,17 | 7,92 | 1.93 | |
| 1008 | 35 | 70.3 | 1,17 | 7,95 | 1,12 | |
| 1010 | 40 | 70.2 | 1.18 | 7,94 | 0.86 | |

Well Recovery Data

| Time | Depth to Water (DW2) | % Recovery (1-[DW2-DW1]/DW1)*100 |
|-------|----------------------|----------------------------------|
| 13:24 | 52.11 | |
| | | |

Sample Information

| Time | Sample ID | Temp (°F) | PH · | Cond (uS/cm) | Turb (NTU) | TPH-g | р-нат | BTEX /MTBE | 8260 | 8010 | OTHER |
|------|--------------|--------------|------|-----------------|---------------|-------|-------|---------------|------|------|-------|
| | MW1 | | | | | | | | X | | |
| | | | | | | | | | | | - |

Additional Comments

| Addition | ai Commi | · III I | | | | | | |
|----------|----------|---------|------|------|------|------|---|--|
| 1012 | 45 | 70.3 | 1.18 | 7.94 | 0.48 | | | |
| 1015 | 50 | 70.2 | 1.17 | 7.91 | 0.27 | | | |
| | | | | | | | - | |

MONITORING WELL SAMPLING Date 9/8/05 FORM Project Name: Cudahy Client: Job No: 203320006 Contact/Phone: Address: 8411 South Atlantic Boulevard Technician Gauguing/Sampling: Darren Burgett City/State: Cudahy, California Note: All measurements from top of casing. Well Location: mw-Z Depth to Liquid (DL): 52,36 WELL NO. 2.67 x 3 = 8.01 Casing Material: PVC Depth to Water (DW1): 52,36 Diameter: Product Thickness (PT=DW1-DL): ____ Well Head Condition: Total Well Depth (TD): 1,9,09 Well Box Condition: Total head (TH=TD-DW1): 16.70 Casing Volume (TH*Factor): 2,67 Purge Method: Pump Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. $\frac{1}{2}$ " = 0.01; $\frac{3}{4}$ " = 0.023 Vol. Time Temp Cond pН Turb Remarks (°F/°C) (NTU) Purged (uS/cm) 1,06 1144 80.4 7.570 999 Cloudy, gray, 10 ado- no sheen 7.83 959 764 1145 1.04 0.98 999 11:47 999 75.D 1.03 7,82 11 999 11:50 75.0 1.08 Well Recovery Data Time Depth to Water (DW2)* % Recovery (1-DW2-DW1/DW1)*100 13:26 52.21 Sample Information Time Sample Temp PH Cond Turb **OTHER** ID(°F) (uS/cm) (NTU) TPH-g TPH-d 8260 8010 MW+ Χ Additional Comments

MONITORING WELL SAMPLING FORM

Date

918/05

| ProjectName: Cudahy | | Client: | Job No: 203320006 | | | | |
|-----------------------------------|-----------------------------|--|----------------------|--|--|--|--|
| Address: 8411 South Atlantic Boul | evard | Contact/Phone: | | | | | |
| City/State: Cudahy, California | | Technician Gauguing/Sampling: Darren Burgett | | | | | |
| Note: All measurements from to | op of casing. | | Well Location: M W-3 | | | | |
| WELL NO. | 52.19 | | | | | | |
| Casing Material: PVC | Depth to Water (DW1): | 52.19 | 2.68x3=8,04 | | | | |
| Diameter: 2" | Product Thickness (PT= | DW1-DL): | | | | | |
| WellHead Condition: | Total Well Depth (TD): | 68.94 | | | | | |
| WellBox Condition: | Total head (TH=TD-DV | VI): 16,75 | | | | | |
| Purge Method: Pump | Casing Volume (TH*Fa | | | | | | |
| Casing Vol. Conv. Factors: 2" | = 0.16; 3" = 0.36; 4" = 0.6 | 55; 6" = 1.5 gal/ft. | | | | | |
| ½" = | 0.01; 3/4" = 0.023 | | | | | | |

| Time | Vol. | Temp | Cond | pН | Turb | Remarks |
|------|--------|---------|---------|------|-------|---------------------------------|
| | Purged | (°F/°C) | (uS/cm) | | (NTU) | |
| 1250 | _0 | 87.5 | 1.31 | 7.46 | 499 | Clandy cay no odor and no sheen |
| 1252 | 2 | 79.7 | 1.33 | 7.7% | 999 | 7 7 7 |
| 1255 | 4 | 78.1 | 1.28 | 7.78 | 999 | |
| 1257 | 6 | 77.5 | 1.33 | 7.81 | 964 | |
| 1259 | 8 | 77. | 1.31 | 7.81 | 941 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Well Recovery Data

| AL OTT YOU | DOUT DUIL | |
|------------|----------------------|----------------------------------|
| Time | Depth to Water (DW2) | % Recovery (1-[DW2-DW1]/DW1)*100 |
| 13:28 | 52,31 | |
| | | |

Sample Information

| Time | Sample ID | Temp (°F) | PH | Cond (uS/cm) | Turb (NTU) | PH-g | P-H | EX BE | 092 | 010 | OTHER | |
|------|--------------|--------------|----|-----------------|---------------|------|-----|----------|-----|-----|-------|--|
| | | ·. | | | | ŽŽ. | HdT | BT /M | 82 | 08 | | |
| | MWI | | | | | | | | X | | | |
| | | | | | | | | | | | | |

| Additional Comments |
|---------------------|
| |
| |
| |

ATTACHMENT C

LABORATORY REPORTS

September 20, 2005



ELAP No.: 1838 NELAP No.: 02107CA CSDLAC No.: 10196

Workorder No.: 078582

Paul Roberts Ninyo & Moore 475 Goddard Suite 200 Irvine, CA 92618

TEL: (949) 697-2198 FAX: (949) 753-7071

RE: HMC/Atlantic, 203320006

Attention: Paul Roberts

Enclosed are the results for sample(s) received on September 08, 2005 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

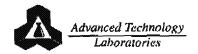
Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez Laboratory/Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Date: 20-Sep-05

CLIENT: Lab Order: Ninyo & Moore

078582

Project:

HMC/Atlantic, 203320006

Lab ID:

078582-001A

Client Sample ID: MW-1

Collection Date: 9/8/2005 12:30:00 PM

Matrix: WATER

| Analyte | Result | PQL Qual Units | DF | Date Analyzed |
|-------------------------|---------------|----------------|----------|---------------|
| VOLATILE ORGANIC COMPOU | INDS BY GC/MS | | | |
| | | EPA 8260B | 3 | • |
| BunID: MS11 050911A | OC Batch | ANS\/A/274 Pr | mn/late. | Analust UU |

| | | | | EPA 6200B | | • |
|-----------------------------|-----------|------|------|-----------------|--------|-------------|
| RunID: MS11_050911A | QC Batch: | A05V | W275 | Pre | pOate: | Analyst: HH |
| 1,1,1,2-Tetrachloroethane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,1,1-Trichloroethane | | ИĎ | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,1,2,2-Tetrachloroethane | | DM | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,1,2-Trichloroethane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,1-Dichloroethane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,1-Dichloroethene | | NO | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,1-Dichloropropene | | ND | 5.0 | µg∕L | 1 | 9/11/2005 |
| 1,2,3-Trichlorobenzene | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,2,3-Trichloropropane | | ND | 5.0 | hg/L | 1 | 9/11/2005 |
| 1,2,4-Trichlorobenzene | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,2,4-Trimethylbenzene | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,2-Dibromo-3-chloropropane | | ND | 5.0 | μ g /L | 1 | 9/11/2005 |
| 1,2-Dibromoethane | | ND | 5.0 | h@/L | 1 | 9/11/2005 |
| 1,2-Dichlorobenzene | | ND | 5.0 | µg/L | 7 | 9/11/2005 |
| 1,2-Dichloroethane | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,2-Dichloropropane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,3,5-Trimethylbenzene | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,3-Dichlorobenzene | | NĎ | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,3-Dichloropropane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,4-Dichlorobenzene | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 2,2-Dichloropropane | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 2-Chlorotoluene | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 4-Chlorotoluene | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 4-isopropyitoluene | | ND | 5.0 | μ g/ L · | 1 | 9/11/2005 |
| Benzene | | ND | 5.0 | μ g/L | 1 | 9/11/2005 |
| Bromobenzene | | ND | 5.0 | h8/r | 1 | 9/11/2005 |
| Bromodichioromethane | | 26 | 5.0 | μ g /L | 1 | 9/11/2005 |
| Bromoform | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Bromomethane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Carbon tetrachloride | | ND | 5.0 | hâ\r | 1 | 9/11/2005 |
| Chlorobenzene | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| Chloroethane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Chloroform | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Chloromethane | | ND | 5.0 | µg∕L | 1 | 9/11/2005 |
| cis-1,2-Dichloroethene | | 110 | 50 | μ g /L | 10 | 9/15/2005 |
| Dibromochloromethane | | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| | | | | | | |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike/Surrogate outside of limits due to matrix interferen

J - Analyte detected below quantitation limits

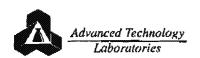
H - Sample exceeded analytical holding time

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

R - RPO outside acceptable recovery limits



Date: 20-Sep-05

CLIENT: Ninyo & Moore

Lab Order: 078582

Client Sample ID: MW-1

Project:

Lab ID:

V/0302

078582-001A

HMC/Atlantic, 203320006

Collection Date: 9/8/2005 12:30:00 PM

Matrix: WATER

Analyte Result PQL Qual Units DF **Date Analyzed VOLATILE ORGANIC COMPOUNDS BY GC/MS EPA 8260B** RunID: MS11_050911A QC Batch: A05VW275 PrepDate: Analyst: HH Dibromomethane NĎ 9/11/2005 5.0 µg/L Dichlorodiffuoromethane ND 5.0 1 9/11/2005 µg/L Ethylbenzene ND 5.0 9/11/2005 µg/L 1 Hexachlorobutadiene NĎ 5.0 µg/L 1 9/11/2005 ND Isopropylbenzene 5.0 ug/L 9/11/2005 µg∕L m,p-Xylene ND 10 1 9/11/2005 Methylene chloride ND 5.0 µg/L 9/11/2005 n-Butylbenzene ND 5.0 μg/L 1 9/11/2005 n-Propylbenzene ND 5.0 1 µg/L 9/11/2005 Naphthalene ND 5.0 µg/L 9/11/2005 o-Xylene ND 5.0 1 9/11/2005 µg/L ND sec-Butylbenzene 5.0 9/11/2005 µg/L 1 Styrene ND 5.0 µg/L 9/11/2005 tert-Butylbenzene ND 5.0 µg/L 1 9/11/2005 Tetrachloroethene ND 5.0 1 µg/L 9/11/2005 Toluene ND 5.0 μg/L 1 9/11/2005 trans-1,2-Dichloroethene 6.5 5.0 µg/L 1 9/11/2005

500

5.0

5.0

μg/L

μg/L

μg/L,

3300

ND

ND

Qualifiers:

Trichloroethene

Vinyl chloride

Trichlorofluoromethane

ND - Not Octocted at the Reporting Limit

S - Spike/Surrogate outside of limits due to matrix interferen

100

1

9/15/2005

9/11/2005

9/11/2005

J - Analyte detected below quantitation limits

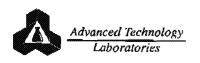
H - Sample exceeded analytical holding time

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

R - RPD outside acceptable recovery limits



Date: 20-Sep-05

CLIENT:

Ninyo & Moore

Client Sample ID: MW-2

Lab Order:

078582

Project; HM

HMC/Atlantic, 203320006

Collection Date: 9/8/2005 12:40:00 PM

Lab ID:

078582-002A

Matrix: WATER

| Analyte | | Result | PQL | Qual Units | DF | Date Analyzed |
|-----------|----------------------------|---------------|--|---|--|---------------|
| VOLATIL | E ORGANIC COMPOU | INDS BY GC/MS | 0000000000000000000000000000000000000 | wanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | 90000000000000000000000000000000000000 | |
| | | | | EPA 820 | 30B | |
| RuniD: | MS11_050911A | QC Batch: A | .05VW275 | | PrepDate: | Analyst: HH |
| 1,1,1,2-1 | Tetrachloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,1,1-Trl | ichioroethane | ND | 5.0 | yg/L | 1 | 9/11/2005 |
| 1,1,2,2- | Tetrachloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,1,2-Tri | ichloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,1-Dlch | loroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,1-Dich | lorcethene | ND | 5.0 | | 1 | 9/11/2005 |
| 1,1-Dich | lloropropene | ND | 5.0 | | 1 | 9/11/2005 |
| 1,2,3-Trl | ichiorobenzen e | ND | 5.0 | | 1 | 9/11/2005 |
| | chloropropane | ND | 5.0 | | 1 | 9/11/2005 |
| | ichlorobenzene | ND | 5.0 | | 1 | 9/11/2005 |
| | lmethylbenzene | ND | 5.0 | | 1 | 9/11/2005 |
| 1,2-Dibn | omo-3-chioropropane | ND | 5.0 | | 1 | 9/11/2005 |
| | omoethane | ND | 5.0 | . • | 1 | 9/11/2005 |
| 1,2-Dich | ilorobenzene | ND | 5.0 | • | 1 | 9/11/2005 |
| 1,2-Dich | loroethane | ΝĎ | 5.0 | • | 1 | 9/11/2005 |
| 1,2-Dich | loropropane | ND | 5.0 | μ g/ L | 1 | 9/11/2005 |
| 1,3,5-Trl | lmethylbenzene | ND | 5.0 | | 1 | 9/11/2005 |
| 1,3-Dich | lorobenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 1,3-Dich | loropropane | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 1,4-Dich | iorobenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 2,2-Dich | loropropane | ND | 5.0 | | 7 | 9/11/2005 |
| 2-Chloro | toluene | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| 4-Chiloro | ptoluene | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| 4-Isopro | pyłtoluene | ND | 5.0 | | 1 | 9/11/2005 |
| Benzene | • | ND | 5.0 | | 1 | 9/11/2005 |
| Bromobe | enzene | ND | 5.0 | | 1 | 9/11/2005 |
| Bromodi | ichkoromethane | ND | 5.0 | . • | 1 | 9/11/2005 |
| Bromofo | NTTN | ND | 5.0 | - • | 1 | 9/11/2005 |
| Bromom | ethane | ND | 5.0 | | 1 | 9/11/2005 |
| Carbon i | tetrachionde | ND | 5.0 | - | 1 | 9/11/2005 |
| Chlorobe | enzene | NO | 5.0 | . • | 1 | 9/11/2005 |
| Chloroel | thane | ND | 5.0 | · - | 1 | 9/11/2005 |
| Chlorofo | erm | ND | 5.0 | • – | 1 | 9/11/2005 |
| Chlorom | ethane | ND | 5.0 | . • | 1 | 9/11/2005 |
| | Dichloroethene | 95 | 5.0 | | 1 | 9/11/2005 |
| • | chloromethane | QN | 5.0 | | 1 | 9/11/2005 |

Qualiflers:

ND - Not Detected at the Reporting Limit

S - Spike/Surrogate outside of limits due to matrix interferen

J - Analyte detected below quantitation limits

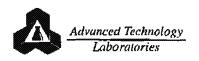
H - Sample exceeded analytical holding time

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

R - RPD outside acceptable recovery limits



Date: 20-Sep-05

CLIENT:

Ninyo & Moore

Client Sample ID: MW-2

Lab Order:

078582

Project:

HMC/Atlantic, 203320006

Lab ID: 078582-002A Collection Date: 9/8/2005 12:40:00 PM

Matrix: WATER

| Analyte | Resu | lt PQL | Qual Units | DF | Date Analyzed | |
|--------------------------|----------------|----------|---|-----------|---------------|--|
| VOLATILE ORGANIC COMPO | OUNDS BY GC/MS | | *************************************** | processor | 46000 | |
| | | | EPA 820 | 50B | | |
| RunID; MS11_050911A | QC Batch: | A05VW275 | | PrepDate: | Analyst: HH | |
| Dibromomethane | N | D 5.0 | μg/L | 1 | 9/11/2005 | |
| Dichlorodifluoromethane | N | D 5.0 | yg/L | 1 | 9/11/2005 | |
| Ethylbenzene | N | D 5.0 | μg/L | 1 | 9/11/2005 | |
| Hexachlorobutadiene | N | D. 5.0 | μg/L | 1 | 9/11/2005 | |
| Isopropylbenzene | N | D 5.0 | hg/L | 1 | 9/11/2005 | |
| m.p-Xylene | N | ID 10 |) µg/L | 1 | 9/11/2005 | |
| Methylene chloride | N | D 5.0 | μg/L | 1 | 9/11/2005 | |
| n-Butylbenzene | N | ID 5.0 | μg/L | 1 | 9/11/2005 | |
| n-Propylbenzene | N | D 5.0 | ha/r | 1 | 9/11/2005 | |
| Naphthalene | N | ID 5.0 | μg/L | 1 | 9/11/2005 | |
| o-Xylene | N | ID 5.0 | µg/L | 1 | 9/11/2005 | |
| sec-Butylbenzene | N | D 5.0 | μg/L | 1 | 9/11/2005 | |
| Styrene | N | D 5.0 | hð/r | 1 | 9/11/2005 | |
| tert-Butylbenzene | N | ID 5.0 | μ g /L | 1 | 9/11/2005 | |
| Tetrachloroethene | N | D 5.0 | µg/L | 1 | 9/11/2005 | |
| Toluene | N | D 5.0 |) µg/L | 1 | 9/11/2005 | |
| trans-1,2-Dichloroethene | 6 | .0 5.0 |) μ g/ L | 1 | 9/11/2005 | |
| Trichloroethene | 250 | 00 250 |) µg/L | 50 | 9/15/2005 | |
| Trichlorofluoromethane | N | ID 5.0 |) µg/L | 1 | 9/11/2005 | |
| | | | | | | |

Qualiflers;

Vinyl chloride

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

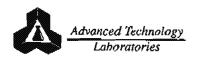
S - Spike/Surrogate outside of limits due to matrix interferen

9/11/2005

- H Sample exceeded analytical holding time
- E Value above quantitation range

µg/L

R - RPD outside acceptable recovery limits



Date: 20-Sep-05

CLIENT:

Ninyo & Moore

Client Sample ID: MW-3

Lab Order:

078582

V/020/

HMC/Atlantic, 203320006

Collection Date: 9/8/2005 12:50:00 PM

Project: Lab ID:

078582-003A

Matrix: WATER

| Analyte | Result | PQL | Qual Uni | ts DF | Date Analyzed | | | | | |
|---|-----------|----------|----------------|-----------|---------------|--|--|--|--|--|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS EPA 8280B | | | | | | | | | | |
| | | | EPA 8 | 2608 | | | | | | |
| RunID: MS11_050911A | QC Batch: | N05VW275 | | PrepDate: | Analyst: HH | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | µg/L | 1 | 9/11/2005 | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | µg/L | 1 | 9/11/2005 | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| 1,1-Dichioroethene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | • | 1 | 9/11/2005 | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| • • | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | µg/L | 1 | 9/11/2005 | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,3,5-Trimethylbenzene | NO | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,3-Dichlorobenzene | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| 1,4-Dichlorobenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| 2-Chlorotoluene | ND | 5.0 | | 1 | 9/11/2005 | | | | | |
| 4-Chlorotoluene | NĎ | 5.0 | | | 9/11/2005 | | | | | |
| 4-Isopropyitoluene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Benzene | ND | 5.0 | yg/L | 1 | 9/11/2005 | | | | | |
| Bromobenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Bromodichloromethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Bromoform | ND | 5.0 | μ g/ L, | 1 | 9/11/2005 | | | | | |
| Bromomethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Carbon tetrachloride | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Chlorobenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Chloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Chloroform | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| Chloromethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | |
| cis-1,2-Dichloroethene | 240 | 50 | μg/L | 10 | 9/13/2005 | | | | | |
| Dibromochloromethane | ND | 5.0 | µg/L | 1 | 9/11/2005 | | | | | |

Qualiflers:

ND - Not Detected at the Reporting Limit

S - Spike/Surrogate outside of limits due to matrix interferen

J - Analyte detected below quantitation limits

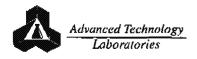
H - Sample exceeded analytical holding time

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Diluted Out

R - RPD outside acceptable recovery limits



Date: 20-Sep-05

CLIENT:

Ninyo & Moore

Lab Order:

078582

Project: Lab ID:

HMC/Atlantic, 203320006

078582-003A

Client Sample ID: MW-3

Collection Date: 9/8/2005 12:50:00 PM

Matrix: WATER

PQL Qual Units Analyte Result DF Date Analyzed **VOLATILE ORGANIC COMPOUNDS BY GC/MS EPA 8260B** RunID: MS11_050911A QC Batch: A05VW275 PrepDate: Analyst: HH 9/11/2005

| DIDIDITIONIEGISTIC | NU | 台で | h ô v.c | ı | 8/11/2005 |
|--------------------------|------|-----|----------------|-----|-----------|
| Dichlorodifluoromethane | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Ethylbenzene | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Hexachlorobutadiene | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Isopropyibenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| m,p-Xylene | ND | 10 | μg/L | 1 | 9/11/2005 |
| Methylene chloride | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| n-Butylbenzene | МĎ | 5.0 | μg/L | 1 | 9/11/2005 |
| n-Propylbenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| Naphthalene | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| o-Xylene | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| sec-Butylbenzene | ND | 5.0 | μ g/L | 1 | 9/11/2005 |
| Styrene | ND | 5.0 | μ g/L | 1 | 9/11/2005 |
| tert-Butylbenzene | ND | 5.0 | μ g/ L | 1 | 9/11/2005 |
| Tetrachloroethene | Й | 5.0 | μ g/ L | 1 | 9/11/2005 |
| Toluene | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| trans-1,2-Dichloroethene | 13 | 5.0 | μg/L | 1 | 9/11/2005 |
| Trichloroethene | 2800 | 500 | μg/L | 100 | 9/15/2005 |
| Trichloroftuoromethane | ND | 5.0 | µg∕L | 1 | 9/11/2005 |
| Vinvi chioride | ND | 50 | ual | 1 | 9/11/2005 |

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

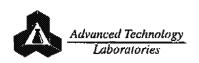
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interferen

H - Sample exceeded analytical holding time

E - Value above quantitation range

R - RPD outside acceptable recovery limits



Date: 20-Sep-05

CLIENT:

Ninyo & Moore

Client Sample ID: TB-1

Lab Order:

078582

Project:

HMC/Atlantic, 203320006

Collection Date: 9/8/2005

Matrix: WATER

Lab ID:

078582-004A

| Analyte | Result | PQL | Qual Units | DF | Date Analyzed | | | | | | | |
|-----------------------------|-----------|----------|------------|-----------|---------------|--|--|--|--|--|--|--|
| PrepDate: Analyst: HH | | | | | | | | | | | | |
| | | | EPA 82 | 60B | | | | | | | | |
| RunID: MS11_050911A | QC Batch: | A05VW275 | | PrepDate: | Analyst: HH | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |
| 1,1,1-Trichloroethane | NO | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 1,1,2-Trichloroethane | NC | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 1,1-Dichloroethane | NO | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | 1 | 9/11/2005 | | | | | | | |
| 1,1-Dichloropropene | NC | 5.0 | | 1 | 9/11/2005 | | | | | | | |
| | NC | 5.0 | | 1 | 9/11/2005 | | | | | | | |
| | | | | 1 | | | | | | | | |
| | ND | 5.0 | | 1 | 9/11/2005 | | | | | | | |
| 1,2,4-Trimethylbenzene | NÇ | 5.0 | | 1 | 9/11/2005 | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | , - | 1 | 9/11/2005 | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | 1 | 9/11/2005 | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 1,2-Dichloroethane | NÇ | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |
| 1,2-Dichloropropane | NC | 5.0 | | 1 | 9/11/2005 | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |
| 1,3-Dichlorobenzens | NC | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 1,4-Dichlorobenzene | NO | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |
| 2,2-Dichloropropane | NC | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 2-Chlorotoluene | NC | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |
| 4-Chlorotoluene | NO | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| 4-isopropyltoluene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Benzene | NO | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |
| Bromobenzene | NO | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Bromodichloromethane | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Bromoform | NC | 5.0 | ug/L | 1 | 9/11/2005 | | | | | | | |
| Bromomethane | NC | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Chlorobenzene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Chloroethane | NO | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |
| Chloroform | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Chloromethane | NC | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | μg/L | 1 | 9/11/2005 | | | | | | | |
| Dibromochloromethane | NC | 5.0 | µg/L | 1 | 9/11/2005 | | | | | | | |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike/Surrogate outside of limits due to matrix interferen

J - Analyte detected below quantitation limits

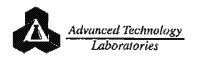
H - Sample exceeded analytical holding time

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

OO - Surrogate Diluted Out

R - RPD outside acceptable recovery limits



Date: 20-Sep-05

CLIENT:

Ninyo & Moore

Client Sample ID: TB-1

Lab Order:

078582

Collection Date: 9/8/2005

Project: Lab ID:

HMC/Atlantic, 203320006 078582-004A

Matrix: WATER

| Analyt | e | Resul | | ual Units | DF | Date Analyzed |
|--------|----------------------|------------|----------|-----------|----|---------------|
| VOLAT | ILE ORGANIC COMPOUND | S BY GC/MS | | EPA 8260B | | |
| | | | | EFA 0200D | | |
| RuniD: | MS11_050911A | QC Batch: | A05VW275 | PrepDate: | | Analyst: HH |

| RuniD: MS11_050911A | QC Batch: | A05√ | W275 | Pre | pDate: | Analyst: HH |
|--------------------------|-----------|------|------|---------------|--------|-------------|
| Dibromomethane | 1 | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| Dichlorodifluoromethane | | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| Ethylbenzene | 1 | ND. | 5.0 | μ ġ/ L | 1 | 9/11/2005 |
| Hexachlorobutadiene | | ΝĎ | 5.0 | µg∕L | 1 | 9/11/2005 |
| Isopropylbenzene | Į | ND. | 5.0 | μ g/ L | 1 | 9/11/2005 |
| m.p-Xylene | Į. | ND | 10 | μ g/L | 1 | 9/11/2005 |
| Methylene chloride | (| ND | 5.0 | μg/L | 1 | 9/11/2005 |
| n-Butylbenzene | f | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| n-Propylbenzene | į | ND | 5.0 | μ g/L | 1 | 9/11/2005 |
| Naphthalene | (| Qν | 5.0 | µg/L | 1 | 9/11/2005 |
| o-Xylene | ļ | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| sec-Butylbenzene | į | ND | 5.0 | μ g/L | 1 | 9/11/2005 |
| Styrene | ! | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| tert-Butylbenzene | į | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Tetrachloroethene | İ | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Toluene | i | ND | 5.0 | µg∕L | 1 | 9/11/2005 |
| trans-1,2-Dichloroethene | 1 | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| Trichloroethene | İ | ND | 5.0 | μg/L | 1 | 9/11/2005 |
| Trichiorofluoromethane | i | ND | 5.0 | µg/L | 1 | 9/11/2005 |
| Vinyl chloride | (| ND | 5.0 | µg/L | 1 | 9/11/2005 |

Qualifiers:

NO - Not Detected at the Reporting Limit

S - Spike/Surrogate outside of limits due to matrix interferen

J - Analyte detected below quantitation limits

H - Sample exceeded analytical holding time

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

DO - Surrogate Oiluted Out

R - RPD outside acceptable recovery limits





CLIENT:

Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

Date: 20-Sep-05

TestCode: 8260_WP

| Sample ID: A091005MB5 | SampType: MBLK | TestCo | de: 8260_WP | Units: µg/L | | Prep Date: | | | | Run ID: MS11_050911A | | | |
|-----------------------------|-----------------------------|--------|---------------|------------------------|--------------------------|------------|---------------|-------------|---------------|----------------------|------|--|--|
| Client ID: ZZZZZ | Batch ID: A05VW275 | Testi | √o: EPA 8260 | В | Analysis Date: 9/11/2005 | | | | SeqNo: 789688 | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPOLimit | Qual | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | | | | | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | | | | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | | | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | | | | | | | | | | |
| 1,2-Dibromo-3-chioropropane | ND | 5.0 | | | | | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | | | | | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | | | | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | | | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 5.0 | | | | | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | | | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 5.0 | | | | | | | | | | | |
| 2,2-Dichloropropane | NO | 5.0 | | | | | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | | | | | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | | | | | | | | | | | |
| 4-Isopropyltoluene | ND | 5.0 | | | | | | | | | | | |
| Benzene | ND | 5.0 | | | | | | | | | | | |
| Bromobenzene | ND | 5.0 | | | | | | | | | | | |
| Bromodichioromethane | ND | 5.0 | | | | | | | | | | | |
| Bromoform | ND | 5.0 | | | | | | | | | | | |
| Bromomethane | ND | 5.0 | | | | | | | | | | | |
| Qualifiers: ND - Not Dete | cted at the Reporting Limit | S - S | pike Recovery | outside accepted recov | ery limits | DO | - Surrogate d | ilute out | | | | | |

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

H - Sample exceeded holding time

Page 1 of 11



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091005MB5 | SampType: MBLK | TestCode: 8250_WP | | Units: µg/L | VL Prep Date: | | | | | Run ID: MS11_050911A | | | |
|-----------------------------|--------------------|-------------------|---------------|-------------|---------------|-------------|--------------|---|------------|----------------------|---|--|--|
| Client ID: ZZZZZ | Batch ID: A05VW275 | Testh | io: EPA 8260i | 3 | | Analysis Da | ite: 9/11/2(|)O5 | SeqNo: 781 | 8886 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | | |
| Carbon tetrachloride | ND | 5.0 | | | | | | *************************************** | | | *************************************** | | |
| Chlorobenzene | ND | 5.0 | | | | | | | | | | | |
| Chloroethane | ND | 5.0 | | | | | | | | | | | |
| Chloroform | ND | 5.0 | | | | | | | | | | | |
| Chloromethane | ND | 5.0 | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | | | |
| Dibromochioromethane | ND | 5.0 | | | | | | | | | | | |
| Dibromomethane | ND | 5.0 | | | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | | | |
| Isopropylbenzene | ND | 5.0 | | | | | | | | | | | |
| m.p-Xylene | ND | 10 | | | | | | | | | | | |
| Methylene chloride | ND | 5.0 | | | | | | | | | | | |
| n-Butylbenzene | ND | 5.0 | | | | | | | | | | | |
| n-Propylbenzene | ND | 5.0 | | | | | | | | | | | |
| Naphthalene | ND | 5.0 | | | | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | | | | | | | | | | | |
| Styrene | ND | 5.0 | | | | | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | | | | | | | | | | | |
| Tetrachloroethene | ND | 5.0 | | | | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | | | |
| Trichloroethene | ND | 5.0 | | | | | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | | | | | | | | | | | |
| Vinyl chloride | ND | 5.0 | | | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.03 | 5.0 | 25 | o | 88.1 | 75 | 134 | 0 | 0 | | | | |
| Sur: 4-Bromofluorobenzene | 25.17 | 5.0 | 25 | . 0 | 101 | 70 | 136 | 0 | 0 | | | | |
| Sur: Dibromofluoromethene | 22.3 | 5.0 | 25 | 0 | 89.2 | 79 | 129 | 0 | 0 | | | | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out

H - Sample exceeded holding time

Page 2 of 11



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091005i | MB5 S | SampType: MBLK | | de: 8260_WP | Units: pg/L | | Prep Da | | | | 611_050911 <i>A</i> | 4 |
|------------------------|--|--------------------------|--------|---------------------|-----------------------|-------------|-------------|----------------|------------------|------------|----------------------|------|
| Client ID: ZZZZZ | | Batch ID: A05VW275 | Test | No: EPA 8260 | В | | Analysis Da | te: 9/11/2(| 105 | SeqNo: 78 | 9686 | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8 | | 26.08 | 5.0 | 25 | 0 | 104 | 84 | 125 | 0 | 0 | | |
| Sample 10: A0912064 | MB5 5 | SampType: MBLK | TestCo | de: 8260_W P | Units: µg/L | | Prep Da | te: | | Run ID: MS | 311_050 9 12E | 3 |
| Client ID: ZZZZZ | | Batch ID: A05VW277 | Test | No: EPA 8280 | 8 | | Analysis Da | te: 9/12/2(| 105 | SeqNo: 78 | 0634 | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPOLimit | Qual |
| 1,1,1,2-Tetrachloroett | 18ne | ND | 5.0 | | | | | | | | | |
| 1,1.1-Trichloroethane | | ND | 5.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroett | one | ND | 5.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethane | | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethene | | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloropropene | | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzen | e | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichloropropan | e | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzen | 10 | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzer | ne | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromo-3-chlorop | propane | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromoethane | | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlomethane | | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloropropane | | ND | 5.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzer | ne | ND | 5.0 | | | | | | | | | |
| 1,3-Dichlorobenzene | | ND | 5.0 | | | | | | | | | |
| 1,3-Dichloropropane | | ND | 5.0 | | | | | | | | | |
| 1,4-Dichlorobenzene | | ND | 5.0 | | | | | | | | | |
| 2,2-Dichloropropane | | ND | 5.0 | | | | | | | | | |
| 2-Chlorotoluene | | ND | 5.0 | | | | | | | | | |
| 4-Chlorotoluene | | ND | 5.0 | | | | | | | | | |
| 4-Isopropylloluene | | ND | 5.0 | | | | | | | | | |
| Qualiflers: NI | D - Not Detected | I at the Reporting Limit | S - S | pike Recovery | outside accepted reco | very limits | DO | - Surrogate di | inte out | | | |
| J. | J - Analyte detected below quantitation limits | | | | in the associated Me | thod Blank | H- | Sample exces | ded holding time | | | |

- R RPD outside accepted recovery limits
- Calculations are based on raw values



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091206MB5 | SampType: MBLK | TestCo | de: 8260_WP | Units: µg/L | | Prep Da | te: | - | Run ID: MS | 11_050912E | 3 |
|------------------------------|--------------------|--------|--------------------|-------------|---|---|--|-------------|--|--|------|
| Client ID: ZZZZZ | Batch ID: A05VW277 | Test | No: EPA 8260 | 8 | | Analysis Da | te: 9/12/2(| 105 | SeqNo: 79 | 1684 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 5.0 | | | *************************************** | บนเป็นเหมายนานหมายนานหมายนาน _{านนาน} | nde-antikin-an anananananananan | | 00000000000000000000000000000000000000 | ************************************** | |
| Bromobenzene | ND | 5.0 | | | | | | | | | |
| Bromodichioromethane | ND | 5.0 | | | | | | | | | |
| Bromoform | ND | 5.0 | | | | | | | | | |
| Bromomethane | ND | 5.0 | | | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | | | | | | | | | |
| Chlorobenzene . | ND | 5.0 | | | | | | | | | |
| Chloroethane | ND | 5.0 | | | | | | | | | |
| Chloroform | ND | 5.0 | | | | | | | | | |
| Chloromethane | ND | 5.0 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| Dibromochloromethane | ND | 5.0 | | | | | | | | | |
| Oibromom ethane | ND | 5.0 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | |
| Isopropylbenzene | NO | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |
| Methylene chloride | ND | 5.0 | | | | | | | | | |
| n-Butylbenzene | NO | 5.0 | | | | | | | | | |
| n-Propylbenzene | ND | 5.0 | | | | | | | | | |
| Naphthalene | ND | 5.0 | | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | | | | | | | | | |
| Styrene | ND | 5.0 | | | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | | | | | | | | | |
| Tetrachloroethene | ND | 5.0 | | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| Trichloroethene | ND | 5.0 | • | | | | | | | | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091206MB5 | SampType: MBLK | TestCo | de: 8260_WP | Units: µg/L | | Prep Da | te: | | Run ID: MS | 311_050912E | 3 |
|-----------------------------|--------------------|--------|----------------------|---|--|-------------|---------------------|---|------------|-------------|------|
| Client ID: ZZZZZ | Batch ID: A05VW277 | Testf | No: EPA 8260 | В | | Analysis Da | te: 9/12/2 0 | 105 | SeqNo: 794 | 0684 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLImit | Qual |
| Trichlorofluoromethane | ND | 5.0 | • | | tidencen en | | *************************************** | | | |
| Vinyl chloride | ND | 5.0 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.91 | 5.0 | 25 | 0 | 83.6 | 75 | 134 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 25.43 | 5.0 | 25 | 0 | 102 | 70 | 136 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 21.37 | 5.0 | 25 | 0 | 85.5 | 79 | 129 | 0 | 0 | | |
| Surr: Toluene-d8 | 25.86 | 5.0 | 25 | 0 | 103 | 84 | 125 | 0 | 0 | | |
| Sample ID: A091405MB4 | SampType: MBLK | TestCo | de: 8280_WP | Units: µg/L | | Prep Da | te: | 9-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4 | Run ID: MS | 311_050914A | \ |
| Client ID: 22222 | Batch ID: A05VW280 | Testi | No: EPA 826 0 | В | | Analysis Da | te: 9/14/20 | 105 | SeqNo: 793 | 3331 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | | | | | | | | |
| 1.1-Dichloropropene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dibremo-3-chloropropane | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1.3-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | | | | | | | | | |

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091405MB4 | SampType: MBLK | | ie: 826 0_WP | Units: µg/L | | Prep Da | ita: | | Run ID: MS | 11_0509144 | k . |
|------------------------------|--------------------------------|-------|---------------------|-------------------------|-----------|------------------------------|----------------|-------------|---|------------|------|
| Client ID: ZZZZZ | Batch (D: A05VW280 | Testi | lo: EPA 8260 | 8 | | Analysis Oa | ile: 9/14/20 | 105 | SeqNo: 793 | 3331 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val . | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,4-Dichlorobenzene | ND | 5.0 | 0000 | | | 00000000vinnnenenenenenenene | | | *************************************** | | |
| 2,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Isopropyitoluene | ND | 5.0 | | | | | | | | | |
| Benzene | ND | 5.0 | | | | | | | | | |
| Bromobenzene | NO | 5.0 | | | | | | | | | |
| Bromodichloromethane | ND | 5.0 | | | | | | | | | |
| Bromoform | ND | 5.0 | | • | | | | | | | |
| Bromomethane | ND | 5.0 | | | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | | | | | | | | | |
| Chlorobenzene | ND | 5.0 | | | | | | | | | |
| Chloroethane | ND | 5.0 | | | | | | | | | |
| Chloroform | ND | 5.0 | | | | | | | | | |
| Chloromethane | ND | 5.0 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| Dibromochloromethane | ND | 5.0 | | | | | | | | | |
| Dibromomethane | ND | 5.0 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | |
| Isopropyibenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |
| Methylene chloride | ND | 5.0 | | | | | | | | | |
| n-Butylbenzene | ND | 5.0 | | | | | | | | | |
| n-Propylbenzene | ND | 5.0 | | | | | | | | | |
| Naphthalene | ND | 5.0 | | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | | | | | | | | | |
| Styrene | ND | 5.0 | | ٠ | | | | | | | |
| Qualifiers: ND - Not D | etected at the Reporting Limit | | vika Danovas o | urtside accepted recove | ev limite | IXV. | - Surrogate di | Interest | | | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091405MB4 Client ID: ZZZZZ | SampType: MBLK Batch ID: A05VW280 | | de: 8260_WP do: EPA 8260 | Units: µg/L R | | Prep Da Analysis Da | | 105 | Run ID: MS SeqNo: 793 | - | • | |
|--|-----------------------------------|--------|-----------------------------|------------------|---|------------------------|--------------|---|--------------------------|---|---|--|
| Analyte | Result | PQL | | SPK Ref Val | %REC | • | | RPD Ref Val | %RPD | RPDLImit | Qual | |
| tert-Butylbenzene | ND | 5.0 | | | | | | *************************************** | | *************************************** | *************************************** | |
| Tetrachloroethene | ND | 5.0 | | | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | | |
| Trichloroethene | ND | 5.0 | | | | | | | | | | |
| Trichloroffuoromethane | ND | 5.0 | | | | | | | | | | |
| Vinyl chloride | ND | 5.0 | | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.51 | 5.0 | 25 | 0 | 90 | 75 | 134 | 0 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 24.22 | 5.0 | 25 | 0 | 96.9 | 70 | 136 | 0 | 0 | | | |
| Surr: Dibromofluoromethane | 23.34 | 5.0 | 25 | 0 | 93.4 | 79 | 129 | C | 0 | | | |
| Surr; Toluene-d8 | 25.18 | 5.0 | 25 | 0 | 101 | 84 | 125 | 0 | 0 | | | |
| Sample ID: A091805LC2 | SampType: LCS | TestCo | de: 8280_WP | Units: µg/L | *************************************** | Prep Da | te: | | Run ID: MS | 11_050911A | · · · · · | |
| Client ID: ZZZZZ | Batch ID: A05VW275 | Test | lo: EPA 8260 | В | | Analysis Da | ite: 9/11/20 | 05 | SeqNo: 789685 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| 1,1-Dichloroethene | 17.09 | 5.0 | 20 | 0 | 85.4 | 83 | 126 | 0 | 0 | | | |
| Benzene | 19.75 | 5.0 | 20 | 0 | 98.8 | 96 | 128 | . 0 | 0 | | | |
| Chiorobenzene | 17.99 | 5.0 | 20 | 0 | 90 | 81 | 119 | 0 | 0 | | | |
| Toluene | 20.41 | 5.0 | 20 | 0 | 102 | 96 | 128 | 0 | 0 | | | |
| Trichloroethene | 20.18 | 5.0 | 20 | 0 | 101 | 93 | 128 | 0 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.86 | 5.0 | 25 | 0 | 83.4 | 75 | 134 | 0 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 22.4 | 5.0 | 25 | 0 | 89.6 | 70 | 136 | 0 | 0 | | | |
| Surr: Dibromofluoromethane | 22.05 | 5.0 | 25 | 0 | 88.2 | 79 | 129 | 0 | 0 | | | |
| Surr: Toluene-d8 | 26.4 | 5.0 | 25 | 0 | 106 | 84 | 125 | Q | 0 | | | |
| Sample ID: A091205LC2 | SampType: LCS | TestCo | de: 8260_WP | Units: µg/L | | Prep Da | le: | | Run ID: MS | 11_050912E | 3 | |
| Client ID: ZZZZZ | Batch ID: A05VW277 | Testi | io: EPA 8260 | 3 | | Analysis Da | ite: 9/12/20 | 05 | SeqNo: 790 | 681 | | |
| | | | | | | | | | | | | |

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

H - Sample exceeded holding time

Page 7 of 11



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091205LC2 | SampType: LCS | TestCo | fe: 8260_WP | Units: µg/L | | Prep Dat | 189." | | Run ID: MS | 11_0509128 | i |
|--|--------------------------------|---------|---------------------|------------------------|--------------------------------------|--------------|-------------------|------------------|------------|---|------------------------|
| Client ID: ZZZZZ | Batch ID: A05VW277 | Testh | io: EPA 8260 | В | | Analysis Dat | e: 9/12/20 | 05 | SeqNo: 790 | 681 | |
| Analyle | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 17.09 | 5.0 | 20 | 0 | 85.4 | 83 | 126 | 0 | 0 | *************************************** | |
| Benzene | 19.2 | 5.0 | 20 | 0 | 96 | 96 | 128 | O | a | | |
| Chlorobenzene | 17.86 | 5.0 | 20 | 0 | 89.3 | 81 | 119 | 0 | 0 | | |
| Toluene | 19.8 | 5.0 | 20 | 0 | 99 | 96 | 128 | 0 | 0 | | |
| Trichlorcethene | 19.45 | 5.0 | 20 | 0 | 97.3 | 93 | 128 | 0 | 0 | | |
| Surr: 1,2-Dichloroethane-d4 | 21.76 | 5.0 | 25 | 0 | 87 | 75 | 134 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 21.9 | 5.0 | 25 | 0 | 87.6 | 70 | 136 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 21.71 | 5.0 | 25 | 0 | 86.8 | 79 | 129 | 0 | 0 | | |
| Surr: Toluene-d8 | 26.11 | 5.0 | 25 | 0 | 104 | 84 | 125 | 0 | 0 | | |
| Sample ID: A091405LC4 | SampType: LCS | TestCo | de: 8260_WP | Units: pg/L | | Prep Dat | e: | | Run ID: MS | 11_050 9 14A | |
| Client ID: ZZZZZZ | Batch ID: A05YW280 | Testh | io: EPA 8260 | 3 | | Analysis Dat | e: 9/14/20 | 05 | SeqNo: 793 | 329 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 17.7 | 5.0 | 20 | 0 | 88.5 | 73 | 124 | 0 | 0 | | |
| Benz ene | 19.38 | 5.0 | 20 | 0 | 96.9 | 92 | 123 | 0 | 0 | | |
| Chlorobenzene | 18.91 | 5.0 | 20 | ٥ | 94.6 | 93 | 119 | 0 | 0 | | |
| Toluene | 19.32 | 5.0 | 20 | ٥ | 96.6 | 91 | 123 | 0 | 0 | | |
| Trichloroethene | 18.83 | 5.0 | 20 | 0 | 94.2 | 87 | 126 | 0 | 0 | | |
| Surr: 1,2-Dichloroethane-d4 | 22.49 | 5.0 | 25 | Đ | 90 | 75 | 134 | 0 | 0 | | |
| Surr: 4-Bromofluarobenzene | 23.81 | 5.0 | 25 | O | 95.2 | 70 | 136 | 0 | 0 | | |
| Surr: Dibromoflucromethane | 24.13 | 5.0 | 25 | 0 | 96.5 | 79 | 129 | 0 | 0 | | |
| Sum: Toluene-d8 | 25.6 | 5.0 | 25 | 0 | 102 | 84 | 125 | 0 | 0 | | RECEIPED DU DO DE COMP |
| Sample ID: A091005MB5MS | SampType: MS | TestCoo | le: 8260_W P | Units: pg/L | | Prep Dat | e: | | Run ID: MS | 11_050911A | |
| Client ID: ZZZZZ | Batch ID: A05VW275 | Test | lo: EPA 8260 | 3 | | Analysis Dat | e: 9/11/20 | 05 | SeqNo: 789 | 686 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPÖ Ref Val | %RPD | RPDLimil | Qual |
| 1,1-Dichloroethene | 16.84 | 5.0 | 20 | 0 | 84.2 | 81 | 128 | 0 | 0 | | |
| Benzene | 19.98 | 5.0 | 20 | 0 | 99.9 | 95 | 129 | 0 | 0 | | |
| Qualifiers: ND - Not Detected at the Reporting Limit | | | pike Recovery c | utside accepted recov | very limits DO- Surrogate dilute out | | | | | | |
| J - Analyto dete | cted below quantitation limits | B-A | nalyte detected | in the associated Meti | od Blank | H-S | ample excee | ded holding time | | | |
| | | | | | | | | | | | |



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260 WP

| Sample ID: A091005MB5MS | SampType: MS | TestCo | de: 8260_WP | Units: µg/L | | Prep Da | te: | | Run ID: MS | 11_050911A | 1 |
|--------------------------------|--------------------|--------|--------------------|-------------|---|-------------|-------------|---|------------|---------------------|-----|
| Client ID: ZZZZZ | Batch ID: A05VW275 | Test | Vo: EPA 8260 | 3 | | Analysis Da | te: 9/11/20 | 05 | SeqNo: 789 | 1686 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPO | RPOLimit | Qua |
| Chlorobenzene | 21.59 | 5.0 | 20 | 0 | 108 | 82 | 119 | 0 | 0 | | - |
| Toluene | 20.38 | 5.0 | 20 | ٥ | 102 | 96 | 128 | 0 | 0 | | |
| Trichloroethene | 20.31 | 5.0 | 20 | 0 | 102 | 84 | 135 | 0 | 0 | | |
| Surr: 1,2-Dichloroethane-d4 | 22,92 | 5.0 | 25 | 0 | 91.7 | 75 | 134 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 26.46 | 5.0 | 25 | 0 | 106 | 70 | 136 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 22.7 | 5.0 | 25 | 0 | 90.8 | 79 | 129 | O | 0 | | |
| Surr: Toluene-d8 | 26.12 | 5.0 | 25 | 0 | 104 | 84 | 125 | O | 0 | | |
| Sample ID: A091205MB5MS | SampType: MS | TestCo | de: 8260_WP | Units: µg/L | 000000000000000000000000000000000000000 | Prep Da | te: | | Run ID: MS | 11_0 509 12B | ļ. |
| Client ID: ZZZZZ | Batch ID: A05VW277 | Test | %: EPA 82801 | 3 | Analysis Date: 9/13/2005 | | | | SeqNo: 790 | 1690 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPO | RPOLimit | Qua |
| 1,1-Dichloroethene | 16.54 | 5.0 | 20 | 0 | 82.7 | 81 | 128 | 0 | 0 | | |
| Benzene | 19.9 | 5.0 | 20 | 0 | 99.5 | 95 | 129 | o | 0 | | |
| Chiorobenzene | 17.9 | 5.0 | 20 | 0 | 89.5 | 82 | 119 | 0 | 0 | | |
| Toluene | 19.73 | 5.0 | 20 | 0 | 98.6 | 96 | 128 | 0 | 0 | | |
| Trichloroethene | 19.76 | 5.0 | 20 | 0 | 98.8 | 84 | 135 | 0 | 0 | | |
| Surr: 1,2-Dichloroethane-d4 | 20.83 | 5.0 | 25 | 0 | 83.3 | 75 | 134 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 22.01 | 5.0 | 25 | 0 | 88 | 70 | 136 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 21,61 | 5.0 | 25 | 0 | 86.4 | 79 | 129 | . 0 | 0 | | |
| Surr: Toluene-d8 | 26.05 | 5.0 | 25 | 0 | 104 | 84 | 125 | 0 | ٥ | | |
| Sample ID: A091405MB4MS | SampType: MS | TestCo | de: 8260_WP | Units: µg/L | | Prep Da | te: | atti tili tili tili tili tili tili tili | Run ID: M8 | 11_050914A | ١ |
| Client ID: ZZZZZ | Batch ID: A05VW280 | Test | Vo: EPA 82801 | 3 | | Analysis Da | te: 9/14/20 | 05 | SeqNo: 793 | 1330 | |
| Analyte | Result | PQL | SPK value | SPK Ref Vel | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPOLimit | Qua |
| 1,1-Dichloroethene | 18.22 | 5.0 | 20 | 0 | 91.1 | 74 | 121 | 0 | 0 | | |
| Benzene | 19.82 | 5.0 | 20 | 0 | 99.1 | 91 | 125 | 0 | 0 | | |
| Chlorobenzene | 19.76 | 5.0 | 20 | 0 | 98.8 | 91 | 119 | 0 | 0 | | |
| Toluene | 20.05 | 5.0 | 20 | 0 | 100 | 89 | 123 | ٥ | 0 | | |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO- Surrogate dilute out



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091405MB4MS | SampType: MS | | | | | | | | | 311_0509144 | |
|-----------------------------|-----------------------------|--------------------|---------------------|------------------------|--|-------------|--------------|---|------------|------------------|------|
| Client ID: ZZZZZ | Batch ID: A05VW280 | Test | vo: EPA 8260 | В | | Analysis Da | te: 9/14/2(| 005 | SeqNo: 79 | 3330 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Trichloroethene | 19.34 | 5.0 | 20 | 0 | 96.7 | 86 | 126 | 0 | 0 | | |
| Surr: 1,2-Dichloroethane-d4 | 21.53 | 5.0 | 25 | 0 | 86.1 | 75 | 134 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 24.43 | 5.0 | 25 | 0 | 97.7 | 70 | 136 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 22.91 | 5.0 | 25 | 0 | 91.6 | 79 | 129 | 0 | 0 | | |
| Surr: Toluene-d8 | 26.13 | 5.0 | 25 | 0 | 105 | 84 | 125 | 0 | 0 | | - |
| Sample ID: A091005MB5MSD | SampType: MSD | TestCo | de: 8260_WP | Units: pg/L | | Prep Da | te: | p0 <u>1-</u> qennannonnannannannannannannannannan | Run ID: MS | 311_050911A | L. |
| Client ID: ZZZZZ | Batch ID: A05VW275 | Test | 4o: EPA 8260 | 8 | | Analysis Da | te: 9/1 1/20 | 105 | SeqNo: 78 | 9687 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPOLi mit | Qual |
| 1,1-Dichloroethene | 16.87 | 5.0 | 20 | 0 | 84.4 | 81 | 128 | 16.84 | 0.178 | 30 | |
| Senzene | 19.78 | 5.0 | 20 | 0 | 98.9 | 95 | 129 | 19.98 | 1.01 | 30 | |
| Chlorobenzene | 21.88 | 5.0 | 20 | 0 | 109 | 82 | 119 | 21.59 | 1.33 | 30 | |
| Toluene | 20.38 | 5.0 | 20 | 0 | 102 | 96 | 128 | 20.38 | 0 | 30 | |
| Trichloroethene | 20.1 | 5.0 | 20 | 0 | 100 | 84 | 135 | 20.31 | 1.04 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 21.21 | 5.0 | 25 | 0 | 84.8 | 75 | 134 | 0 | 0 | 30 | |
| Surr: 4-Bromofluorobenzene | 26.47 | 5.0 | 25 | 0 | 106 | 70 | 136 | 0 | 0 | 30 | |
| Surr: Dibromofluoromethane | 22.35 | 5.0 | 25 | 0 | 89.4 | 79 | 129 | 0 | 0 | 30 | |
| Surr: Toluene-d8 | 25.94 | 5.0 | 25 | 0 | 104 | 84 | 125 | 0 | 0 | 30 | |
| Sample ID: A091205MB5MSD | SampType: MSD | TestCoo | de: 8260_WP | Units: µg/L | ************************************** | Prep Da | te: | occonocococococococococococococococococ | Run ID: MS | 11_0509128 | ļ |
| Client ID: ZZZZZ | Batch ID: A05VW277 | Testh | lo: EPA 8260 | В | | Analysis Da | te: 9/12/2(| 005 | SeqNo: 794 | 0683 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLImit | Qual |
| 1,1-Dichloroethene | 16.2 | 5.0 | 20 | 0 | 81 | 81 | 128 | 16.69 | 0 | 30 | |
| Benzene | 19.49 | 5.0 | 20 | 0 | 97.5 | 95 | 129 | 19.42 | 0 | 30 | |
| Chiorobenzene | 18.44 | 5.0 | 20 | 0 | 92.2 | 82 | 119 | 20.72 | 0 | 30 | |
| Toluene | 20.03 | 5.0 | 20 | 0 | 100 | 96 | 128 | 19.83 | 0 | 30 | |
| Trichloroethene | 19.65 | 5.0 | 20 | 0 | 98.2 | 84 | 135 | 20.08 | 0 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 21.83 | 5.0 | 25 | 0 | 86.5 | 75 | 134 | 0 | 0 | 30 | |
| Qualifiers: ND - Not Detec | cted at the Reporting Limit | S - S ₁ | pike Recovery o | outside accepted recov | epted recovery limits DO- Surrogate dilute out | | | | | | |

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values



Ninyo & Moore

Work Order:

078582

Project:

HMC/Atlantic, 203320006

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP

| Sample ID: A091205MB5MSD Client ID: ZZZZZ | SampType: MSD Batch ID: A05VW277 | TestCode: 8260_WP Units: µg/L TestNo: EPA 8260B | | | | Prep Da Analysis Da | | 105 | Run ID: M\$11_050912B SeqNo: 790683 | | | | |
|--|-------------------------------------|---|-------------|-------------|------|------------------------|-----------|-------------|--|------------|------|--|--|
| Analyte | Result | POL | SPK value | SPK Ref Val | %REC | LowUmit | HighLimit | RPD Ref Val | %RPD | RPOLimit | Qual | | |
| Surr: 4-Bromofluorobenzene | 22.37 | 5.0 | 25 | 0 | 89.5 | 70 | 136 | 0 | 0 | 30 | | | |
| Surr: Dibromofluoromethane | 22.04 | 5.0 | 25 | 0 | 88.2 | 79 | 129 | 0 | 0 | 30 | | | |
| Sum: Toluene-d8 | 26.27 | 5.0 | 25 | 0 | 105 | 84 | 125 | 0 | 0 | 30 | | | |
| Sample ID: A091405MB4MSD | SampType: MSD | TestCo | de: 8260_WP | Units: µg/L | | Prep Da | te: | nun | Run ID: MS | 11_050914A | | | |

| Sample ID: A091405MB4MSD | SampType: MSD | TestCo | de: B260_VVP | Units: µg/L | | Prep Da | te: | | Run ID: MS | 11_050914/ | i. |
|-----------------------------|--------------------|--------|---------------------|-------------|------|-------------|-------------|-------------|------------|------------|-------|
| Client ID: ZZZZZ | Batch ID: A05VW280 | Test | Vo: EPA 8260 | 3 | | Analysis Da | te: 9/15/20 | 105 | SeqNo: 79: | 3339 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 22.43 | 5.0 | 20 | 0 | 112 | 74 | 121 | 18.22 | 20.7 | 30 | 0,000 |
| Benzene | 20.43 | 5.0 | 20 | 0 | 102 | 91 | 125 | 19.82 | 3.03 | 30 | |
| Chlorobenzene | 19.84 | 5.0 | 20 | 0 | 99.2 | 91 | 119 | 19.76 | 0.404 | 30 | |
| Toluene | 20.92 | 5.0 | 20 | 0 | 105 | 89 | 123 | 20.05 | 4.25 | 30 | |
| Trichloroethene | 22.01 | 5.0 | 20 | 0 | 110 | 86 | 126 | 19.34 | 12.9 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 22.26 | 5.0 | 25 | 0 | 89 | 75 | 134 | 0 | 0 | 30 | |
| Surr: 4-Bromofluorobenzene | 24.48 | 5.0 | 25 | · o | 97.9 | 70 | 136 | 0 | 0 | 30 | |
| Surr: Dibromofluoromethane | 23.39 | 5.0 | 25 | 0 | 93.6 | 79 | 129 | 0 | 0 | 30 | |
| Surr: Toluene-d8 | 25.77 | 5.0 | 25 | O | 103 | 84 | 125 | 0 | 0 | 30 | |

Qualifiers:

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Calculations are based on raw values

DO-Surrogate dilute out

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| (562) 989-4045 • Fax | (562) 989-40 | 140 | 4 | | | | | Oth | er: | | 3.00 | NTAINE | R INTAI | CT Y | S NO | 6. PRE | SERVE | :D | YATNI |
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| Attn: Paul A. | Robertz | | | City | Irv | ku | | | | tate C | | Zip (| 20de 9 | 261 | 8 FAX | :(|) | | - 7071 |
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